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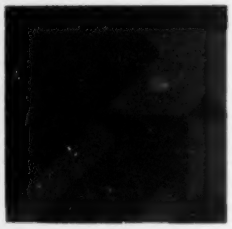

MULTIPLE INPUT PRODUCTIVITY INDEXES

Volume 1 No. 3
April 1981

For the U.S. Private Domestic Economy and Major Segments and Industries

- 1948-1980 Data for Major Segments of the Economy
- 1948-1979 Data for U.S. Industries

This issue provides complete index tables for 1948-1980, reflecting revisions to the 1977 Census Benchmark.

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Table I
Multiple-Input Productivity
By Major Segment of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
1. Multiple-Input Productivity					
Private Business Economy	2.0%	2.6%	1.8%	0.4%	-1.4%
Goods Producing Sector	2.3	3.2	2.0	0.2	n.a.
Service Producing Sector	1.5	1.9	1.6	0.5	n.a.
Farming	3.4	4.1	3.1	2.1	1.4
Manufacturing Industry	2.0	2.6	1.9	0.7	-1.9
Nonfarm Nonmanufacturing Industry	1.4	1.9	1.3	0.1	-1.2
Nonfinancial Corporate Business	2.0	2.6	1.6	0.8	-0.1
2. Labor Productivity (Output per hour worked)					
Private Business Economy	2.5%	3.2%	2.4%	0.8%	-0.3%
Goods Producing Sector	2.9	4.0	2.4	0.7	n.a.
Service Producing Sector	2.1	2.4	2.4	0.8	n.a.
Farming	4.9	5.3	5.0	3.6	3.6
Manufacturing Industry	2.5	3.0	2.4	1.4	0.0
Nonfarm Nonmanufacturing Industry	1.9	2.4	2.0	0.3	-0.6
Nonfinancial Corporate Business	2.4	3.1	2.1	1.0	0.3
3. Capital Productivity (Output per unit of capital input)					
Private Business Economy	0.4%	0.8%	0.1%	-0.5%	-3.5%
Goods Producing Sector	0.5	1.1	0.5	-1.2	n.a.
Service Producing Sector	0.3	0.5	0.1	0.1	n.a.
Farming	-0.1	-0.3	0.0	0.6	-0.6
Manufacturing Industry	0.2	0.9	-0.1	-1.6	-6.8
Nonfarm Nonmanufacturing Industry	0.1	0.5	-0.2	-0.3	-2.2
Nonfinancial Corporate Business	0.5	0.9	-0.1	0.3	-1.2

Table II

Outputs, Inputs and Capital-Labor Ratio
By Major Segment of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
1. Output (Real product, in 1972 dollars)					
Private Business Economy	3.5%	3.6%	3.9%	2.7%	-0.9%
Goods Producing Sector	3.1	3.6	3.0	1.6	n.a.
Service Producing Sector	3.8	3.6	4.5	3.4	n.a.
Farming	1.1	0.9	0.9	2.0	1.2
Manufacturing Industry	3.5	4.0	3.6	2.0	-4.2
Nonfarm Nonmanufacturing Industry	3.6	3.6	4.1	3.0	0.6
Nonfinancial Corporate Business	4.4	4.6	5.0	3.0	-0.8
2. Labor Input (Hours worked)					
Private Business Economy	0.9%	0.4%	1.4%	1.9%	-0.5%
Goods Producing Sector	0.1	-0.4	0.6	0.9	n.a.
Service Producing	1.7	1.2	2.1	2.6	n.a.
Farming	-3.6	-4.2	-3.9	-1.6	-2.3
Manufacturing Industry	1.0	1.0	1.2	0.6	-4.1
Nonfarm Nonmanufacturing Industry	1.7	1.2	2.1	2.7	1.2
Nonfinancial Corporate Business	1.9	1.5	2.8	2.0	-1.1

Table II (Cont'd)

Outputs, Inputs and Capital-Labor Ratio
By Major Segment of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
3. Capital Input					
Private Business Economy	3.1%	2.8%	3.8%	3.2%	2.7%
Goods Producing Sector	2.5	2.4	2.5	2.9	n.a.
Service Producing Sector	3.5	3.1	4.5	3.3	n.a.
Farming	1.2	1.2	0.9	1.4	1.8
Manufacturing Industry	3.3	3.0	3.7	3.6	2.8
Nonfarm Nonmanufacturing Industry	3.5	3.2	4.3	3.3	2.8
Nonfinancial Corporate Business	3.9	3.7	5.1	2.7	0.4
4. Capital - Labor Ratio					
Private Business Economy	2.2%	2.4%	2.3%	1.3%	3.3%
Goods Producing Sector	2.4	2.8	1.9	2.0	n.a.
Service Producing Sector	1.7	1.8	2.3	0.7	n.a.
Farming	5.0	5.7	5.0	3.0	4.2
Manufacturing Industry	2.4	2.0	2.5	3.1	7.2
Nonfarm Nonmanufacturing Industry	1.7	2.0	2.2	0.5	1.6
Nonfinancial Corporate Business	1.9	2.2	2.2	0.7	1.5

Table III a.

Multiple-Input Productivity
By Major Industries of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
Private Business Economy	2.0%	2.6%	1.8%	0.4%	-1.4%
Goods Producing Sector	2.3	3.2	2.0	0.2	
Service Producing Sector	1.5	1.9	1.6	0.5	
Farming	3.4	4.1	3.1	2.1	1.4
Manufacturing	2.0	2.6	1.9	0.7	-1.9
Food	2.7	2.9	4.1	0.1	
Tobacco	2.1	2.6	2.1	0.6	
Textiles	3.6	3.9	3.0	3.6	
Apparel	2.6	2.0	3.0	3.8	
Lumber	2.8	4.5	1.2	0.2	
Furniture	2.1	2.2	0.8	3.6	
Paper	2.2	2.2	4.0	-0.2	
Printing & Publishing	1.3	2.4	1.0	-1.2	
Chemicals	3.4	3.8	4.2	1.1	
Petroleum	1.9	3.4	2.0	-2.4	
Rubber	1.7	2.3	2.0	-0.3	
Leather	1.3	1.1	1.8	1.2	
Stone, Clay & Glass	1.3	2.0	0.9	0.0	
Primary Metals	0.3	0.9	0.9	-1.9	
Fabricated Metals	1.3	1.7	1.3	0.5	
Machinery, exc. Elec.	1.3	1.5	1.4	0.8	
Electrical Machinery	3.7	4.3	2.8	3.3	
Transportation Equipment	2.5	3.4	2.3	0.4	
Instruments	2.7	3.4	2.4	1.0	
Miscellaneous Manufac.	2.5	2.3	3.6	1.4	
Nonfarm Nonmanufacturing	1.4	1.9	1.3	0.1	-1.2
Mining	0.9	2.3	1.7	-4.0	
Construction	0.4	2.4	-1.0	-3.5	
Transportation	1.9	2.0	2.4	1.0	
Railroad	2.8	4.2	1.2	1.1	
Nonrail	1.1	0.5	2.7	0.8	
Communications	4.6	5.4	3.2	4.3	
Public Utilities	3.2	5.6	1.5	-0.9	
Trade	2.1	2.4	2.6	0.6	
Finance & Insurance	0.6	1.1	0.5	-0.7	
Real Estate	1.3	1.9	0.0	1.2	
Services	0.5	0.4	0.9	0.3	
Nonfinancial Corporate Business	2.0	2.6	1.6	0.8	-0.1

Table III b.

Labor Productivity
(Output per Hour)
By Major Industries of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
Private Business Economy	2.5%	3.2%	2.4%	0.8%	-0.3%
Goods Producing Sector	2.9	4.0	2.4	0.7	
Service Producing Sector	2.1	2.4	2.4	0.8	
Farming	4.9	5.3	5.0	3.6	3.6
Manufacturing	2.5	3.0	2.4	1.4	0.0
Food	3.1	3.2	4.6	0.7	
Tobacco	3.9	4.0	4.0	3.5	
Textiles	4.4	5.0	3.3	4.3	
Apparel	2.8	2.0	3.3	4.1	
Lumber	3.1	4.3	1.8	1.6	
Furniture	2.2	2.1	1.1	4.2	
Paper	2.7	2.5	4.5	1.0	
Printing & Publishing	1.5	2.4	1.5	-1.0	
Chemicals	4.3	4.8	4.8	2.5	
Petroleum	3.6	5.5	3.3	-1.5	
Rubber	2.0	2.5	2.2	0.2	
Leather	1.5	1.2	2.2	1.7	
Stone, Clay & Glass	1.9	2.6	1.2	0.8	
Primary Metals	0.9	1.5	1.5	-1.3	
Fabricated Metals	1.8	2.1	1.5	1.1	
Machinery, exc. Elec.	1.7	1.7	2.0	1.4	
Electrical Machinery	4.1	4.5	3.4	3.8	
Transportation Equipment	3.0	3.6	3.1	1.2	
Instruments	3.1	3.8	3.1	1.2	
Miscellaneous Manufac.	2.9	2.8	4.0	1.5	
Nonfarm Nonmanufacturing	1.9	2.4	2.0	0.3	-0.6
Mining	1.9	4.3	2.4	-5.2	
Construction	0.5	2.6	-0.9	-3.5	
Transportation	2.2	2.3	2.6	1.1	
Railroad	3.4	4.8	1.7	1.4	
Nonrail	1.4	0.8	3.2	1.1	
Communications	5.9	6.5	4.8	5.8	
Public Utilities	4.9	6.9	3.8	0.6	
Trade	2.5	2.8	3.2	0.8	
Finance & Insurance	1.1	1.3	1.2	0.1	
Real Estate	0.4	1.2	0.1	-1.3	
Services	0.9	1.0	1.4	0.2	
Nonfinancial Corporate Business	2.4	3.1	2.1	1.0	0.3

Table III c.

Capital Productivity
(Output per Unit Capital)
By Major Industries of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
Private Business Economy	0.4%	0.8%	0.1%	-0.5%	-3.5%
Goods Producing Sector	0.5	1.1	0.5	-1.2	
Service Producing Sector	0.3	0.5	0.1	0.1	
Farming	-0.1	-0.3	0.0	0.6	-0.6
Manufacturing	0.2	0.9	-0.1	-1.6	-6.8
Food	1.4	2.1	2.5	-2.0	
Tobacco	-0.2	0.0	0.3	-1.3	
Textiles	0.1	-0.9	1.5	1.2	
Apparel	1.1	2.2	-0.9	0.6	
Lumber	2.0	5.4	-1.4	-3.0	
Furniture	1.5	3.3	-1.2	0.3	
Paper	0.9	1.5	2.5	-3.1	
Printing & Publishing	0.5	2.4	-1.7	-2.1	
Chemicals	1.7	2.0	3.1	-1.2	
Petroleum	0.5	1.6	0.9	-2.9	
Rubber	0.8	1.7	1.0	-2.0	
Leather	-1.3	-0.2	-3.0	-1.8	
Stone, Clay & Glass	-0.7	-0.3	-0.1	-2.4	
Primary Metals	-2.0	-1.8	-1.0	-4.0	
Fabricated Metals	-1.2	-1.2	-0.3	-2.4	
Machinery, exc. Elec.	-0.8	-0.4	-1.1	-1.4	
Electrical Machinery	1.8	3.3	-0.7	0.9	
Transportation Equipment	0.7	2.5	-1.0	-1.9	
Instruments	0.3	0.2	0.4	0.7	
Miscellaneous Manufac.	0.6	-0.2	2.0	1.1	
Nonfarm Nonmanufacturing	0.1	0.5	-0.2	-0.3	-2.2
Mining	-1.3	-2.0	0.7	-2.3	
Construction	-2.2	-1.9	-2.9	-2.3	
Transportation	0.3	-0.1	1.3	0.2	
Railroad	-0.5	-0.2	-1.1	-0.2	
Nonrail	-1.0	-1.4	0.0	-0.8	
Communications	0.8	0.2	0.8	2.5	
Public Utilities	1.0	2.8	-0.5	-2.0	
Trade	-1.2	-1.2	-1.5	-0.9	
Finance & Insurance	-2.9	-1.4	-4.6	-4.9	
Real Estate	1.4	1.9	0.0	1.5	
Services	-0.5	-1.1	-0.1	0.7	
Nonfinancial Corporate Business	0.5	0.9	-0.1	0.3	-1.2

Table III d.

Capital - Labor Ratio
By Major Industries of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
Private Business Economy	2.2%	2.4%	2.3%	1.3%	3.3%
Goods Producing Sector	2.4	2.8	1.9	2.0	
Service Producing Sector	1.7	1.8	2.3	0.7	
Farming	5.0	5.7	5.0	3.0	4.2
Manufacturing	2.4	2.0	2.5	3.1	7.2
Food	1.6	1.1	2.0	2.7	
Tobacco	4.1	4.0	3.7	4.9	
Textiles	4.3	5.9	1.8	3.1	
Apparel	1.6	-0.2	4.2	3.6	
Lumber	1.1	-1.1	3.2	4.8	
Furniture	0.7	-1.1	2.4	3.9	
Paper	1.9	1.0	2.0	4.3	
Printing & Publishing	1.0	0.0	3.3	1.1	
Chemicals	2.6	2.7	1.7	3.7	
Petroleum	3.0	3.9	2.4	1.4	
Rubber	1.2	0.8	1.2	2.3	
Leather	2.8	1.4	5.3	3.6	
Stone, Clay & Glass	2.5	2.9	1.3	3.2	
Primary Metals	3.0	3.3	2.5	2.8	
Fabricated Metals	3.0	3.4	1.8	3.6	
Machinery, exc. Elec.	2.5	2.1	3.1	2.9	
Electrical Machinery	2.2	1.1	4.2	2.9	
Transportation Equipment	2.3	1.1	4.2	3.2	
Instruments	2.8	3.7	2.7	0.5	
Miscellaneous Manufac.	2.2	3.0	2.0	0.4	
Nonfarm Nonmanufacturing	1.7	2.0	2.2	0.5	1.6
Mining	3.3	6.4	1.7	-3.0	
Construction	2.8	4.6	2.0	-1.2	
Transportation	1.8	2.4	1.3	0.9	
Railroad	3.8	5.1	2.9	1.7	
Nonrail	2.4	2.2	3.2	1.9	
Communications	5.1	6.3	3.9	3.2	
Public Utilities	3.8	4.0	4.3	2.6	
Trade	3.7	4.0	4.7	1.8	
Finance & Insurance	4.1	2.8	6.1	5.3	
Real Estate	-0.9	-0.7	0.1	-2.7	
Services	1.4	2.1	1.5	-0.5	
Nonfinancial Corporate Business	1.9	2.2	2.2	0.7	1.5

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

1. Private Business Economy

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	37.2	80.9	41.4	68.3	54.5	46.0	89.8	51.2
1949	36.5	78.3	42.1	66.7	54.7	46.7	86.7	53.8
1950	39.9	79.2	43.5	67.8	58.8	50.3	91.6	55.0
1951	42.2	81.5	45.0	69.8	60.4	51.7	93.7	55.2
1952	43.6	81.6	46.1	70.2	62.1	53.4	94.5	56.5
1953	45.4	82.4	47.2	71.1	63.9	55.1	96.4	57.2
1954	44.6	79.7	48.2	69.6	64.1	56.0	92.7	60.4
1955	48.2	82.7	49.9	72.2	66.7	58.2	96.6	60.3
1956	49.4	84.0	51.3	73.5	67.2	58.8	96.2	61.1
1957	49.9	82.7	52.8	73.1	68.3	60.3	94.5	63.8
1958	49.1	79.0	53.8	70.9	69.3	62.2	91.3	68.1
1959	51.8	82.1	55.3	73.5	70.6	63.1	93.7	67.4
1960	53.6	82.3	56.7	74.0	72.3	65.1	94.4	69.0
1961	54.5	81.0	58.1	73.6	74.0	67.2	93.7	71.7
1962	57.5	82.3	59.9	75.1	76.5	69.8	96.0	72.7
1963	60.0	82.8	61.7	76.0	78.9	72.4	97.3	74.4
1964	63.6	84.2	63.8	77.6	81.9	75.5	99.6	75.8
1965	67.9	86.8	66.3	80.2	84.6	78.2	102.4	76.4
1966	71.6	88.9	69.3	82.6	86.8	80.6	103.4	77.9
1967	73.2	88.8	71.9	83.4	87.8	82.4	101.9	80.9
1968	76.9	90.3	74.6	85.3	90.2	85.2	103.1	82.6
1969	79.2	92.7	77.6	87.9	90.1	85.4	102.0	83.7
1970	78.5	91.2	80.1	87.6	89.6	86.1	98.0	87.9
1971	80.9	90.7	82.7	88.1	91.8	89.2	97.8	91.2
1972	86.2	93.4	85.5	90.8	94.9	92.4	100.8	91.6
1973	92.0	97.0	89.1	94.4	97.4	94.8	103.2	91.9
1974	90.2	97.4	92.2	95.7	94.3	92.7	97.8	94.7
1975	88.5	93.4	94.2	93.6	94.5	94.8	94.0	100.9
1976	94.1	96.1	96.8	96.3	97.7	97.9	97.2	100.8
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.7	104.9	103.7	104.5	100.2	99.8	101.0	98.8
1979	107.7	108.4	107.3	108.0	99.7	99.4	100.3	99.1
1980	106.8	107.8	110.3	108.6	98.3	99.0	96.8	102.3

PRELIMINARY: April 13, 1981

Table III d.

Capital - Labor Ratio
By Major Industries of the Economy
(Selected Periods, 1948 - 80)

	Average Annual Rates of Change				
	1948-79	1948-65	1965-73	1973-79	1979-80
Private Business Economy	2.2%	2.4%	2.3%	1.3%	3.3%
Goods Producing Sector	2.4	2.8	1.9	2.0	
Service Producing Sector	1.7	1.8	2.3	0.7	
Farming	5.0	5.7	5.0	3.0	4.2
Manufacturing	2.4	2.0	2.5	3.1	7.2
Food	1.6	1.1	2.0	2.7	
Tobacco	4.1	4.0	3.7	4.9	
Textiles	4.3	5.9	1.8	3.1	
Apparel	1.6	-0.2	4.2	3.6	
Lumber	1.1	-1.1	3.2	4.8	
Furniture	0.7	-1.1	2.4	3.9	
Paper	1.9	1.0	2.0	4.3	
Printing & Publishing	1.0	0.0	3.3	1.1	
Chemicals	2.6	2.7	1.7	3.7	
Petroleum	3.0	3.9	2.4	1.4	
Rubber	1.2	0.8	1.2	2.3	
Leather	2.8	1.4	5.3	3.6	
Stone, Clay & Glass	2.5	2.9	1.3	3.2	
Primary Metals	3.0	3.3	2.5	2.8	
Fabricated Metals	3.0	3.4	1.8	3.6	
Machinery, exc. Elec.	2.5	2.1	3.1	2.9	
Electrical Machinery	2.2	1.1	4.2	2.9	
Transportation Equipment	2.3	1.1	4.2	3.2	
Instruments	2.8	3.7	2.7	0.5	
Miscellaneous Manufac.	2.2	3.0	2.0	0.4	
Nonfarm Nonmanufacturing	1.7	2.0	2.2	0.5	1.6
Mining	3.3	6.4	1.7	-3.0	
Construction	2.8	4.6	2.0	-1.2	
Transportation	1.8	2.4	1.3	0.9	
Railroad	3.8	5.1	2.9	1.7	
Nonrail	2.4	2.2	3.2	1.9	
Communications	5.1	6.3	3.9	3.2	
Public Utilities	3.8	4.0	4.3	2.6	
Trade	3.7	4.0	4.7	1.8	
Finance & Insurance	4.1	2.8	6.1	5.3	
Real Estate	-0.9	-0.7	0.1	-2.7	
Services	1.4	2.1	1.5	-0.5	
Nonfinancial Corporate Business	1.9	2.2	2.2	0.7	1.5

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

2. Goods Producing Sector

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	42.4	104.5	49.4	86.2	49.1	40.5	85.7	47.3
1949	40.4	98.6	50.0	82.8	48.8	41.0	80.9	50.7
1950	45.4	100.6	51.7	84.7	53.6	45.1	87.7	51.4
1951	49.5	104.2	54.2	88.0	56.3	47.5	91.4	52.0
1952	51.0	103.7	55.8	88.3	57.7	49.2	91.3	53.8
1953	54.0	104.3	57.0	89.2	60.6	51.8	94.7	54.7
1954	51.6	97.6	58.0	85.3	60.5	52.9	89.0	59.4
1955	56.4	102.0	60.2	89.0	63.3	55.3	93.7	59.0
1956	57.3	102.5	62.0	90.1	63.7	55.9	92.4	60.5
1957	57.4	99.2	63.6	88.6	64.8	57.9	90.3	64.1
1958	54.3	91.7	64.3	84.1	64.6	59.3	84.4	70.2
1959	58.9	96.1	65.8	87.5	67.3	61.3	89.5	68.5
1960	59.7	94.8	66.9	86.9	68.7	63.0	89.3	70.6
1961	59.7	91.9	67.8	85.2	70.1	64.9	88.0	73.8
1962	63.6	93.8	69.2	86.9	73.2	67.8	92.0	73.7
1963	67.7	93.9	70.4	87.4	77.5	72.1	96.1	75.0
1964	71.6	94.6	72.2	88.4	81.0	75.7	99.2	76.3
1965	77.0	98.2	74.3	91.6	84.1	78.4	103.6	75.6
1966	81.2	101.3	77.1	94.6	85.9	80.2	105.3	76.2
1967	81.4	100.0	79.8	94.4	86.2	81.4	102.0	79.8
1968	85.5	100.8	81.8	95.6	89.4	84.8	104.5	81.2
1969	87.4	102.4	84.0	97.4	89.7	85.3	104.1	81.9
1970	83.7	97.2	85.4	94.0	89.0	86.1	98.0	87.9
1971	85.8	94.7	86.5	92.5	92.8	90.7	99.2	91.3
1972	91.9	98.4	88.0	95.6	96.1	93.4	104.4	89.5
1973	97.6	102.8	90.5	99.4	98.2	95.0	107.9	88.1
1974	91.2	101.5	93.5	99.3	91.8	89.9	97.6	92.1
1975	87.0	92.7	95.0	93.4	93.2	93.8	91.5	102.5
1976	93.9	95.9	97.2	96.3	97.5	97.8	96.5	101.4
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.6	105.4	103.4	104.8	99.8	99.3	101.2	98.2
1979	107.5	108.4	107.2	108.0	99.5	99.2	100.3	98.9

PRELIMINARY: April 13, 1981

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

3. Service Producing Sector

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	33.7	63.9	37.3	54.2	62.3	52.8	90.5	58.4
1949	33.9	63.5	38.1	54.2	62.5	53.4	89.0	60.0
1950	36.1	63.7	39.3	54.7	66.1	56.8	92.0	61.7
1951	37.2	65.0	40.2	55.9	66.6	57.2	92.5	61.9
1952	38.6	65.5	41.1	56.5	68.3	58.8	93.9	62.6
1953	39.7	66.6	42.0	57.5	69.0	59.6	94.4	63.1
1954	39.9	66.7	43.1	57.9	68.9	59.8	92.7	64.6
1955	42.6	68.7	44.5	59.7	71.4	62.0	95.8	64.8
1956	44.0	70.5	45.8	61.3	71.8	62.5	96.2	65.0
1957	44.8	70.8	47.2	62.0	72.4	63.3	95.0	66.7
1958	45.6	69.8	48.4	61.7	74.0	65.3	94.3	69.3
1959	47.1	72.0	49.9	63.6	74.0	65.4	94.4	69.3
1960	49.4	73.2	51.5	64.9	76.0	67.5	95.9	70.4
1961	51.0	73.1	53.1	65.5	77.8	69.7	96.0	72.6
1962	53.3	74.0	55.1	66.8	79.9	72.1	96.9	74.4
1963	54.8	74.8	57.1	68.1	80.4	73.2	95.9	76.4
1964	58.2	76.6	59.5	70.1	83.0	75.9	97.8	77.6
1965	61.8	78.6	62.2	72.4	85.3	78.6	99.3	79.2
1966	65.2	79.8	65.2	74.3	87.7	81.6	100.0	81.6
1967	67.7	80.7	67.8	75.8	89.3	83.9	99.9	83.9
1968	71.2	82.7	70.9	78.3	90.9	86.0	100.4	85.7
1969	73.6	85.7	74.4	81.4	90.5	85.9	99.0	86.8
1970	75.0	86.8	77.4	83.2	90.1	86.4	96.9	89.2
1971	77.5	87.7	80.7	85.1	91.1	88.3	96.1	92.0
1972	82.4	89.7	84.2	87.6	94.1	91.9	97.8	93.9
1973	88.1	92.8	88.4	91.1	96.7	95.0	99.7	95.3
1974	89.6	94.4	91.6	93.3	96.0	94.9	97.8	97.0
1975	89.5	93.8	93.8	93.8	95.4	95.4	95.5	99.9
1976	94.3	96.2	96.6	96.4	97.8	98.0	97.6	100.4
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.8	104.6	103.8	104.3	100.4	100.2	100.9	99.2
1979	107.8	108.3	107.4	108.0	99.8	99.5	100.4	99.2

PRELIMINARY: April 13, 1981

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

4. Nonfinancial Corporate Business

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	28.8	60.2	32.6	52.3	55.0	47.8	88.2	54.2
1949	27.5	56.6	33.3	50.0	55.1	48.6	82.7	58.8
1950	30.9	59.3	34.6	52.3	59.2	52.2	89.5	58.3
1951	33.8	63.0	36.3	55.4	61.0	53.6	93.2	57.5
1952	34.4	63.9	37.5	56.4	61.0	53.9	91.9	58.7
1953	36.5	65.7	38.7	58.1	62.9	55.6	94.4	58.9
1954	35.4	62.1	39.6	55.8	63.5	57.1	89.5	63.8
1955	39.5	65.1	41.2	58.4	67.6	60.6	95.8	63.3
1956	40.5	66.6	42.9	59.9	67.6	60.9	94.5	64.4
1957	41.1	65.8	44.2	59.8	68.7	62.4	92.8	67.2
1958	39.2	62.9	44.9	57.9	67.7	62.4	87.4	71.4
1959	43.5	66.8	46.1	61.1	71.2	65.1	94.3	69.0
1960	44.9	67.6	47.4	62.0	72.3	66.3	94.6	70.1
1961	46.0	67.0	48.6	61.9	74.3	68.6	94.6	72.5
1962	50.0	69.6	51.3	64.6	77.5	71.8	97.6	73.6
1963	53.4	71.3	53.7	66.4	80.3	74.9	99.3	75.4
1964	57.0	73.6	56.7	68.9	82.7	77.5	100.6	77.1
1965	62.0	77.5	60.6	72.9	85.0	79.9	102.3	78.1
1966	66.4	81.8	66.4	77.6	85.6	81.2	100.1	81.1
1967	68.0	82.9	70.7	79.6	85.4	82.0	96.1	85.3
1968	72.5	85.5	74.5	82.6	87.7	84.8	97.2	87.2
1969	75.6	88.9	78.4	86.1	87.8	85.0	96.4	88.2
1970	75.0	87.9	81.1	86.1	87.1	85.4	92.5	92.3
1971	78.5	87.7	83.4	86.6	90.6	89.4	94.1	95.0
1972	84.9	92.2	86.8	90.7	93.5	92.1	97.8	94.2
1973	91.6	96.9	90.3	95.2	96.3	94.5	101.4	93.2
1974	88.6	97.1	92.5	95.9	92.4	91.3	95.8	95.3
1975	86.9	92.0	92.7	92.2	94.2	94.4	93.7	100.8
1976	93.3	95.8	95.8	95.8	97.4	97.4	97.4	100.0
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	105.8	105.3	103.9	104.9	100.8	100.4	101.8	98.6
1979	109.3	109.0	105.9	108.2	101.1	100.3	103.2	97.2
1980	108.4	107.8	106.3	107.4	101.0	100.6	102.0	98.6

PRELIMINARY: April 13, 1981

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

5. Farming

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	75.7	312.2	72.9	206.7	36.6	24.3	103.8	23.4
1949	74.4	309.5	73.4	205.4	36.2	24.0	101.4	23.7
1950	78.5	286.4	75.4	193.3	40.6	27.4	104.1	26.3
1951	74.6	271.3	76.7	185.4	40.2	27.5	97.3	28.3
1952	76.5	258.1	78.0	178.6	42.8	29.6	98.0	30.2
1953	80.5	238.8	78.5	168.0	47.9	33.7	102.5	32.9
1954	82.4	232.0	79.3	164.5	50.1	35.5	103.9	34.2
1955	84.9	235.9	81.6	167.6	50.6	36.0	104.1	34.6
1956	83.7	224.6	82.1	161.5	51.8	37.3	102.0	36.5
1957	81.5	206.6	83.2	151.9	53.6	39.4	97.9	40.3
1958	85.1	191.6	83.9	143.8	59.2	44.4	101.4	43.8
1959	80.5	191.8	85.5	144.6	55.7	42.0	94.1	44.6
1960	85.0	185.0	86.4	141.0	60.3	46.0	98.4	46.7
1961	84.6	175.1	86.5	135.3	62.5	48.3	97.8	49.4
1962	84.2	169.7	87.1	132.5	63.6	49.6	96.7	51.3
1963	86.9	162.6	87.8	128.6	67.6	53.4	99.0	54.0
1964	84.8	153.8	88.7	123.8	68.5	55.2	95.7	57.7
1965	87.9	149.8	89.3	121.8	72.2	58.7	98.4	59.7
1966	83.0	135.7	89.8	113.8	72.9	61.2	92.4	66.2
1967	87.2	130.8	90.6	111.3	78.4	66.7	96.3	69.2
1968	85.5	128.0	91.2	109.9	77.8	66.8	93.7	71.3
1969	87.4	121.8	91.7	106.5	82.0	71.7	95.2	75.3
1970	92.1	113.5	92.6	102.8	89.5	81.2	99.5	81.6
1971	97.4	110.2	93.7	101.8	95.7	88.4	104.0	85.0
1972	95.2	111.4	94.1	102.6	92.8	85.5	101.2	94.5
1973	94.6	109.0	96.0	102.4	92.4	86.8	98.6	88.1
1974	95.3	109.1	97.0	103.0	92.6	87.3	98.2	88.9
1975	101.3	105.9	98.5	102.1	99.2	95.7	102.9	93.0
1976	96.7	101.1	99.2	100.1	96.6	95.7	97.6	98.1
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	99.7	101.7	101.8	101.8	98.0	98.1	97.9	100.2
1979	106.4	99.1	104.1	101.7	104.7	107.4	102.2	105.1
1980	107.7	96.8	106.0	101.5	106.1	111.3	101.6	109.5

PRELIMINARY: April 13, 1981

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

6. Manufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	37.3	79.4	39.4	68.6	54.4	47.0	94.7	49.6
1949	35.3	72.4	40.0	63.7	55.4	48.8	88.3	55.2
1950	40.3	78.2	41.5	68.3	59.0	51.5	97.1	53.1
1951	44.8	84.2	44.8	73.6	60.9	53.2	100.1	53.2
1952	46.3	85.4	46.6	75.0	61.7	54.2	99.4	54.5
1953	49.5	89.8	48.2	78.6	62.9	55.1	102.6	53.7
1954	45.9	82.1	49.0	73.3	62.6	55.9	93.7	59.7
1955	50.9	86.6	51.0	77.2	65.9	58.8	99.8	58.8
1956	51.2	87.9	53.4	78.8	65.0	58.3	95.9	60.8
1957	51.5	86.5	54.9	78.3	65.8	59.5	93.8	63.5
1958	47.1	79.4	55.3	73.3	64.2	59.2	85.1	69.6
1959	52.4	84.7	56.3	77.3	67.7	61.9	93.1	66.4
1960	52.8	84.4	57.1	77.4	68.2	62.5	92.4	67.7
1961	52.6	82.3	58.1	76.1	69.1	63.9	90.5	70.6
1962	57.2	85.6	59.5	78.9	72.4	66.8	96.0	69.5
1963	61.7	86.5	60.9	79.9	77.2	71.3	101.4	70.4
1964	66.2	88.4	62.7	81.8	80.9	74.9	105.5	71.0
1965	72.2	93.6	65.5	86.4	83.5	77.1	110.1	70.0
1966	78.0	99.7	69.9	92.1	84.7	78.2	111.5	70.1
1967	78.0	99.6	73.8	93.0	83.9	78.3	105.7	74.1
1968	82.4	101.4	76.6	95.1	86.6	81.2	107.6	75.5
1969	84.8	103.0	79.6	97.1	87.3	82.3	106.5	77.2
1970	80.0	97.3	81.5	93.3	85.7	82.2	98.2	83.7
1971	81.1	93.7	82.5	90.9	89.2	86.5	98.3	88.0
1972	88.7	97.8	84.6	94.5	93.9	90.7	104.7	86.6
1973	96.1	103.2	87.7	99.3	96.8	93.1	109.5	85.0
1974	89.6	101.2	92.1	98.9	90.6	88.5	97.3	91.0
1975	85.1	91.4	93.6	92.0	92.5	93.0	90.9	102.4
1976	93.2	95.9	96.6	96.1	96.9	97.1	96.5	100.6
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.8	104.4	104.1	104.3	100.5	100.4	100.7	99.7
1979	108.1	106.6	108.8	107.2	100.8	101.3	99.4	102.0
1980	103.5	102.2	111.8	104.6	99.0	101.3	92.6	109.4

PRELIMINARY: April 13, 1981

TABLE IV. PRIVATE BUSINESS ECONOMY AND MAJOR SECTORS

7. Nonfarm Nonmanufacturing Industry

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	35.5	64.9	37.1	55.5	63.9	54.7	95.6	57.2
1949	35.4	64.2	37.9	55.3	64.0	55.1	93.4	59.0
1950	38.0	64.7	39.2	56.0	67.8	58.7	96.9	60.6
1951	39.5	66.6	40.2	57.6	68.7	59.4	98.4	60.4
1952	40.9	67.1	41.1	58.2	70.2	60.9	99.6	61.2
1953	42.1	67.8	42.1	59.0	71.3	62.0	100.0	62.0
1954	42.4	67.6	43.2	59.2	71.6	62.7	98.2	63.8
1955	45.3	69.9	44.7	61.2	74.0	64.8	101.3	64.0
1956	47.1	72.1	46.1	63.1	74.5	65.3	102.1	64.0
1957	47.8	72.1	47.6	63.6	75.1	66.3	100.4	66.0
1958	48.5	70.7	48.8	63.0	76.9	68.6	99.3	69.1
1959	50.4	73.0	50.5	65.1	77.3	68.9	99.8	69.1
1960	52.5	73.9	52.1	66.3	79.3	71.1	100.8	70.5
1961	54.0	73.6	53.8	66.7	81.0	73.4	100.5	73.0
1962	56.5	74.5	55.8	68.0	83.1	75.7	101.2	74.9
1963	58.0	75.4	57.9	69.3	83.8	76.9	100.3	76.7
1964	61.4	77.3	60.3	71.3	86.2	79.5	101.3	78.0
1965	65.1	79.2	63.0	73.6	88.5	82.1	103.3	79.5
1966	68.3	80.6	66.0	75.5	90.5	84.7	103.5	81.9
1967	70.5	81.0	68.5	76.6	91.9	87.0	102.8	84.6
1968	74.1	82.6	71.6	78.8	94.1	89.7	103.5	86.6
1969	76.2	86.0	75.0	82.1	92.8	88.6	101.7	87.2
1970	77.2	86.8	77.9	83.7	92.3	89.0	99.1	89.8
1971	80.0	87.9	81.0	85.5	93.6	91.1	98.8	92.2
1972	84.7	90.1	84.4	88.1	96.2	94.1	100.3	93.8
1973	90.0	93.3	88.4	91.6	98.2	96.4	101.8	94.7
1974	90.3	94.8	91.5	93.7	96.4	95.3	98.7	96.5
1975	89.5	93.3	93.7	93.5	95.8	95.9	95.5	100.4
1976	94.4	95.8	96.6	96.1	98.3	98.5	97.8	100.8
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.9	105.4	103.8	104.9	100.0	99.5	101.0	98.5
1979	107.6	109.8	107.5	109.0	98.7	98.0	100.1	97.9
1980	108.2	111.1	110.5	110.9	97.5	97.4	97.9	99.5

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

1. Mining

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	57.1	112.5	38.6	80.2	71.2	50.8	147.9	34.3
1949	50.0	97.2	39.4	71.9	69.6	51.5	127.0	40.5
1950	56.0	98.3	41.4	73.4	76.4	57.0	135.3	42.1
1951	61.2	102.5	43.1	76.4	80.1	59.7	142.1	42.0
1952	60.3	99.6	45.0	75.6	79.8	60.6	134.1	45.2
1953	61.7	96.8	46.6	74.7	82.6	63.7	132.4	48.1
1954	59.6	88.5	48.8	70.9	84.1	67.4	122.1	55.2
1955	66.5	93.3	51.7	74.8	88.9	71.3	128.8	55.4
1956	70.1	97.0	54.2	78.0	89.9	72.3	129.5	55.8
1957	70.0	96.2	56.8	78.7	89.0	72.8	123.3	59.0
1958	64.3	85.0	58.9	73.2	87.8	75.6	109.2	69.2
1959	67.2	86.5	61.4	75.2	89.4	77.7	109.4	71.0
1960	68.2	84.1	63.6	74.8	91.2	81.1	107.2	75.6
1961	68.5	80.0	66.2	73.6	93.1	85.7	103.6	82.7
1962	70.5	78.2	68.4	73.6	95.8	90.1	103.1	87.5
1963	73.5	76.3	70.1	73.3	100.3	96.4	104.9	91.9
1964	76.5	77.1	73.2	75.1	101.9	99.2	104.6	94.8
1965	79.5	76.9	75.3	75.9	104.7	103.4	105.6	97.9
1966	83.6	77.2	77.7	77.1	108.4	108.4	107.6	100.7
1967	85.8	74.6	79.5	76.5	112.2	115.0	107.9	106.6
1968	89.0	73.3	81.5	76.6	116.2	121.5	109.3	111.1
1969	92.2	75.3	83.6	78.7	117.1	122.4	110.3	110.9
1970	95.7	74.8	84.7	78.9	121.3	127.9	112.9	113.2
1971	93.2	72.8	85.3	77.9	119.7	128.0	109.3	117.1
1972	96.1	74.9	85.8	79.3	121.1	128.3	112.0	114.5
1973	97.0	77.4	86.9	81.3	119.4	125.4	111.6	112.4
1974	97.3	83.2	88.5	85.4	113.9	116.9	109.9	106.4
1975	95.4	88.8	91.2	89.0	106.2	107.4	104.5	102.7
1976	96.6	94.5	95.0	94.7	102.0	102.2	101.6	100.6
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	103.9	104.4	104.8	104.6	99.3	99.5	99.1	100.4
1979	106.3	116.5	109.2	113.5	93.6	91.3	97.3	93.8

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

2. Contract Construction

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	47.9	64.5	24.0	61.9	77.4	74.3	199.6	37.2
1949	47.9	63.9	24.1	61.3	78.1	75.0	198.9	37.7
1950	52.8	66.7	26.5	64.1	82.4	79.2	199.2	39.8
1951	58.7	73.1	29.1	70.3	83.5	80.3	201.6	39.8
1952	61.1	74.7	30.7	71.9	85.0	81.8	199.4	41.0
1953	63.0	73.0	30.2	70.3	89.6	86.2	208.3	41.4
1954	65.0	71.7	31.8	69.2	93.8	90.5	204.2	44.3
1955	68.9	75.7	34.0	73.1	94.3	91.0	202.7	44.9
1956	73.8	80.8	36.9	78.0	94.6	91.4	200.0	45.7
1957	74.0	78.6	40.6	76.2	97.0	94.1	182.1	51.7
1958	76.1	75.5	42.7	73.6	103.5	100.8	178.4	56.5
1959	82.2	80.0	46.9	78.0	105.3	102.7	175.3	58.6
1960	83.3	78.2	49.5	76.5	109.0	106.6	168.4	63.3
1961	84.3	77.2	52.6	75.7	111.4	109.2	160.4	68.1
1962	87.5	78.8	56.0	77.3	113.1	111.1	156.3	71.1
1963	90.2	80.9	60.0	79.6	113.3	111.4	150.2	74.2
1964	94.2	83.2	64.0	81.9	115.0	113.3	147.2	77.0
1965	98.3	85.7	68.2	84.6	116.2	114.7	144.2	79.5
1966	98.6	88.0	71.4	86.9	113.5	112.1	138.2	81.1
1967	96.5	84.5	75.3	83.8	115.2	114.2	128.1	89.1
1968	102.7	83.6	77.9	83.1	123.7	122.9	131.8	93.2
1969	100.8	91.0	81.2	90.3	111.7	110.7	124.2	89.1
1970	96.5	89.4	83.0	88.9	108.6	108.0	116.3	92.8
1971	104.7	92.2	86.2	91.8	114.1	113.5	121.5	93.4
1972	107.3	96.3	91.4	95.9	111.8	111.3	117.4	94.9
1973	108.7	101.6	95.0	101.1	107.5	106.9	114.4	93.5
1974	96.3	101.0	98.5	100.8	95.5	95.4	97.8	97.5
1975	87.3	89.8	97.3	90.4	96.6	97.2	89.7	108.4
1976	95.4	92.4	97.4	92.8	102.7	103.2	97.9	105.4
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	106.3	112.4	103.1	112.1	94.8	94.5	103.1	91.7
1979	105.2	121.7	105.6	120.9	87.0	86.4	99.7	86.7

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

3. Total Transportation

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	59.7	115.7	63.7	105.3	56.7	51.6	93.7	55.1
1949	52.2	105.7	65.0	97.6	53.5	49.4	80.3	61.5
1950	54.6	104.7	66.1	97.0	56.3	52.2	82.7	63.1
1951	59.5	109.1	67.6	100.9	59.0	54.5	88.1	61.9
1952	57.6	106.6	68.8	99.1	58.1	54.0	83.7	64.5
1953	57.1	106.1	69.7	98.9	57.7	53.8	81.9	65.7
1954	53.4	99.0	70.1	93.3	57.3	54.0	76.2	70.9
1955	58.2	101.5	70.6	95.4	61.0	57.3	82.5	69.5
1956	60.3	102.4	71.3	96.2	62.7	58.9	84.6	69.7
1957	59.9	99.9	72.5	94.5	63.4	60.0	82.6	72.6
1958	55.5	91.6	72.6	87.9	63.2	60.6	76.5	79.2
1959	58.6	94.3	73.5	90.2	64.9	62.1	79.7	77.9
1960	59.3	93.3	74.4	89.6	66.2	63.6	79.7	79.8
1961	59.0	90.7	74.8	87.6	67.3	65.0	78.8	82.4
1962	61.3	91.1	75.4	88.0	69.7	67.3	81.4	82.7
1963	64.6	91.0	75.6	87.9	73.4	71.0	85.4	83.1
1964	66.6	92.3	76.8	89.3	74.6	72.1	86.7	83.2
1965	72.5	95.1	78.5	91.9	78.9	76.2	92.4	82.5
1966	78.6	97.2	80.7	94.0	83.6	80.8	97.4	83.0
1967	78.3	90.7	82.8	89.1	87.9	86.4	94.6	91.3
1968	83.9	97.4	85.5	95.0	88.3	86.1	98.1	87.8
1969	84.9	99.2	87.6	96.9	87.6	85.6	97.0	88.3
1970	83.5	97.8	89.2	96.1	86.8	85.3	93.6	91.2
1971	83.0	95.6	90.1	94.5	87.8	86.8	92.2	94.2
1972	89.2	97.7	89.8	96.1	92.8	91.3	99.3	91.9
1973	94.6	100.9	92.5	99.2	95.4	93.8	102.4	91.7
1974	96.9	99.8	94.6	98.8	98.1	97.1	102.4	94.8
1975	90.4	94.2	97.5	94.9	95.3	96.0	92.7	103.5
1976	94.9	96.3	99.8	97.0	97.8	98.5	95.0	103.6
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	107.0	105.1	102.5	104.5	102.3	101.8	104.4	97.5
1979	109.4	108.9	105.3	108.2	101.1	100.4	103.8	96.7

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

3a. Railroad Transportation

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

	Output and Inputs				Productivity Ratios			
Year	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	113.4	295.8	94.3	251.5	45.1	38.3	120.3	31.9
1949	94.2	252.2	95.8	217.9	43.2	37.3	98.3	38.0
1950	102.4	239.6	96.7	208.3	49.2	42.7	105.9	40.3
1951	115.2	250.8	98.0	217.4	53.0	45.9	117.5	39.1
1952	110.3	239.9	99.2	209.2	52.7	46.0	111.2	41.4
1953	107.3	236.0	99.9	206.3	52.0	45.5	107.4	42.3
1954	96.9	209.3	99.9	185.6	52.2	46.3	97.0	47.7
1955	107.2	213.2	99.8	188.6	56.9	50.3	107.4	46.8
1956	109.8	209.5	100.3	185.8	59.1	52.4	109.5	47.8
1957	103.4	197.4	100.9	176.5	58.6	52.4	102.5	51.1
1958	91.9	168.2	100.2	153.6	59.8	54.6	91.7	59.6
1959	96.1	163.6	99.8	150.0	64.1	58.8	96.3	61.0
1960	95.0	155.9	100.4	144.0	66.0	61.0	94.7	64.4
1961	94.2	145.9	100.0	136.0	69.2	64.5	94.2	68.5
1962	97.7	143.3	99.2	133.8	73.0	68.2	98.5	69.3
1963	102.6	139.7	98.8	130.8	78.4	73.5	103.8	70.7
1964	107.1	138.8	99.5	130.3	82.2	77.2	107.6	71.7
1965	115.7	135.3	100.1	127.6	90.6	85.5	115.6	74.0
1966	123.7	133.0	101.4	126.1	98.0	93.0	122.0	76.2
1967	117.2	126.0	101.9	120.7	97.1	93.0	115.0	80.9
1968	115.0	122.4	101.6	117.8	97.6	93.9	113.2	83.0
1969	118.2	119.8	102.0	115.8	102.1	98.7	115.9	85.2
1970	112.9	116.9	101.7	113.5	99.5	96.6	111.0	87.0
1971	100.4	109.1	101.0	107.3	93.5	92.0	99.4	92.5
1972	101.3	106.4	100.2	105.0	96.5	95.2	101.2	94.1
1973	105.5	107.4	99.5	105.6	99.9	98.3	106.0	92.7
1974	108.4	108.3	99.2	106.2	102.0	100.1	109.2	91.7
1975	95.2	100.1	101.1	100.3	94.9	95.1	94.2	100.9
1976	99.8	99.2	102.5	99.9	99.9	100.7	97.4	103.3
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.1	98.9	101.8	99.4	104.8	105.3	102.3	103.0
1979	108.3	101.1	103.7	101.6	106.6	107.1	104.5	102.5

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

3b. Nonrail Transportation

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	46.3	72.9	33.5	65.6	70.5	63.5	138.0	46.0
1949	41.8	70.9	34.6	64.2	65.1	58.9	120.6	48.8
1950	42.7	72.7	36.0	65.8	64.9	58.8	118.8	49.5
1951	45.6	75.5	37.5	68.4	66.7	60.5	121.7	49.7
1952	44.4	74.9	38.8	68.2	65.2	59.3	114.5	51.8
1953	44.6	75.2	39.9	68.6	64.9	59.3	111.6	53.1
1954	42.6	72.7	40.7	66.7	63.8	58.6	104.7	56.0
1955	46.0	75.0	41.7	68.8	66.9	61.3	110.3	55.6
1956	48.0	76.9	42.8	70.5	68.1	62.5	112.2	55.7
1957	49.1	76.7	44.5	70.6	69.4	64.0	110.1	58.1
1958	46.5	73.5	45.3	68.1	68.2	63.3	102.6	61.7
1959	49.2	77.9	47.5	72.1	68.2	63.2	103.7	61.0
1960	50.4	78.4	48.8	72.8	69.2	64.3	103.3	62.3
1961	50.2	77.6	49.9	72.4	69.3	64.7	100.5	64.3
1962	52.3	78.7	51.9	73.6	71.0	66.4	100.8	65.8
1963	55.1	79.4	52.8	74.3	74.1	69.4	104.4	66.5
1964	56.5	81.3	54.5	76.2	74.1	69.5	103.7	67.0
1965	61.8	85.6	57.2	80.2	77.0	72.1	107.9	66.8
1966	67.4	88.7	60.3	83.3	80.8	75.9	111.6	68.0
1967	68.6	82.3	63.9	78.8	87.1	83.4	107.4	77.7
1968	76.1	91.5	69.6	87.3	87.2	83.2	109.3	76.1
1969	76.7	94.4	73.4	90.3	84.9	81.2	104.4	77.8
1970	76.1	93.3	76.9	90.1	84.5	81.6	99.0	82.4
1971	78.7	92.4	79.3	89.8	87.5	85.1	99.2	85.8
1972	86.2	95.6	79.6	92.5	93.2	90.1	108.3	83.3
1973	91.9	99.3	85.5	96.6	95.1	92.6	107.5	86.1
1974	94.1	97.8	90.1	96.3	97.6	96.2	104.4	92.1
1975	89.2	92.8	94.0	93.0	95.9	96.2	94.9	101.3
1976	93.6	95.7	97.2	96.0	97.6	97.9	96.3	101.6
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	107.7	106.5	103.1	105.8	101.8	101.1	104.5	96.8
1979	109.7	110.8	107.0	110.0	99.7	99.0	102.5	96.5

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

4. Communications

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	13.7	74.8	16.4	51.6	26.6	18.4	83.9	21.9
1949	14.4	72.2	17.2	50.1	28.7	19.9	83.7	23.8
1950	15.1	69.4	17.8	48.5	31.2	21.8	84.8	25.6
1951	16.7	70.9	18.5	49.6	33.6	23.5	90.0	26.1
1952	17.7	72.4	19.7	50.8	34.8	24.4	89.9	27.2
1953	19.4	74.9	20.7	52.7	36.7	25.8	93.3	27.7
1954	19.8	73.9	21.9	52.2	37.9	26.8	90.3	29.7
1955	21.7	73.8	23.2	52.5	41.4	29.4	93.7	31.4
1956	23.0	76.0	25.0	54.3	42.4	30.3	92.1	32.9
1957	24.7	75.4	27.4	54.5	45.4	32.8	90.2	36.3
1958	25.6	70.9	29.1	52.0	49.2	36.0	87.7	41.1
1959	27.5	70.3	30.9	52.0	52.9	39.1	88.9	44.0
1960	29.1	71.1	33.2	53.4	54.5	41.0	87.8	46.6
1961	30.5	69.8	35.3	53.7	56.7	43.6	86.4	50.5
1962	32.7	70.3	37.8	55.1	59.4	46.5	86.6	53.7
1963	35.1	70.3	40.4	56.3	62.3	49.9	86.7	57.5
1964	37.4	72.7	43.4	58.9	63.5	51.4	86.1	59.7
1965	40.6	76.1	46.9	62.3	65.1	53.4	86.7	61.6
1966	44.4	79.9	50.5	66.0	67.2	55.5	87.8	63.3
1967	47.6	81.1	54.4	68.5	69.6	58.7	87.6	67.1
1968	51.6	82.9	58.2	71.1	72.5	62.2	88.5	70.2
1969	57.2	89.5	62.5	76.6	74.6	63.9	91.5	69.8
1970	62.6	94.1	67.5	81.5	76.8	66.5	92.7	71.7
1971	66.0	91.7	72.5	82.6	79.9	71.9	91.0	79.0
1972	71.5	96.2	77.6	87.4	81.9	74.3	92.2	80.7
1973	76.7	99.0	82.9	91.3	84.0	77.5	92.6	83.7
1974	79.7	100.4	88.3	94.7	84.2	79.4	90.2	88.0
1975	86.8	97.4	91.9	94.8	91.5	89.1	94.4	94.3
1976	93.2	96.8	95.4	96.1	97.0	96.3	97.7	98.6
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	109.7	105.2	106.0	105.5	103.9	104.2	103.4	100.8
1979	120.6	111.1	112.5	111.7	108.0	108.6	107.2	101.3

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

5. Public Utilities

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	18.2	81.4	25.3	49.6	36.7	22.4	72.1	31.1
1949	20.2	81.8	26.9	50.6	39.9	24.7	75.2	32.9
1950	21.7	82.0	28.5	51.4	42.1	26.4	76.0	34.7
1951	25.1	81.9	30.1	52.1	48.2	30.7	83.4	36.8
1952	26.9	81.5	31.8	52.7	51.1	33.0	84.8	39.0
1953	28.9	82.0	33.6	53.7	53.8	35.3	85.9	41.0
1954	31.7	81.7	35.3	54.4	58.3	38.8	90.0	43.1
1955	33.5	82.2	36.8	55.3	60.6	40.8	91.1	44.7
1956	35.9	81.8	38.3	55.8	64.4	43.9	93.8	46.8
1957	38.1	82.6	40.2	57.1	66.8	46.1	94.8	48.7
1958	39.6	82.4	41.9	57.7	68.6	48.1	94.5	50.9
1959	43.3	82.9	43.3	58.6	73.8	52.2	100.0	52.2
1960	46.4	83.3	44.7	59.6	77.9	55.7	103.9	53.7
1961	48.9	82.9	46.0	60.3	81.1	59.0	106.3	55.5
1962	51.1	82.6	47.3	61.0	83.8	61.9	108.1	57.3
1963	53.8	83.8	48.6	62.3	86.4	64.1	110.5	58.0
1964	57.3	83.8	50.2	63.2	90.6	68.3	114.1	59.9
1965	60.1	86.0	52.1	65.2	92.2	69.9	115.5	60.5
1966	64.0	86.8	54.5	67.0	95.5	73.7	117.5	62.7
1967	67.3	88.4	57.4	69.4	96.9	76.1	117.1	65.0
1968	73.6	89.6	60.9	72.0	102.2	82.2	120.9	68.0
1969	78.4	92.5	64.8	75.5	103.8	84.7	121.1	70.0
1970	80.7	95.3	68.9	79.1	102.0	84.7	117.1	72.4
1971	86.4	94.6	73.6	81.7	105.7	91.3	117.4	77.8
1972	89.1	96.7	78.7	85.6	104.1	92.2	113.3	81.4
1973	93.5	99.3	84.0	89.9	103.9	94.1	111.3	84.5
1974	90.0	100.1	88.9	93.2	96.5	89.9	101.2	88.8
1975	96.1	97.7	92.3	94.4	101.8	98.3	104.1	94.4
1976	96.5	98.0	95.8	96.6	99.9	98.5	100.8	97.7
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.9	105.6	104.6	104.9	100.0	99.4	100.3	99.0
1979	107.8	110.7	109.3	109.8	98.2	97.4	98.7	98.7

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

6. Trade

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	33.8	71.3	23.5	63.2	53.5	47.3	143.8	32.9
1949	34.6	71.7	24.3	63.6	54.3	48.2	142.4	33.9
1950	37.9	72.0	27.2	64.5	58.7	52.6	139.6	37.7
1951	38.2	73.4	28.5	65.9	58.0	52.1	134.3	38.8
1952	39.4	73.3	29.1	66.0	59.7	53.7	135.5	39.7
1953	40.7	74.1	30.1	66.8	60.9	54.9	135.2	40.6
1954	41.0	74.4	31.3	67.3	60.8	55.1	130.8	42.1
1955	44.7	76.3	34.3	69.5	64.3	58.6	130.3	45.0
1956	46.0	78.0	36.1	71.3	64.5	59.0	127.4	46.3
1957	46.8	77.9	37.5	71.6	65.3	60.0	124.6	48.1
1958	46.7	77.3	38.4	71.3	65.5	60.4	121.5	49.7
1959	50.0	80.0	40.6	73.9	67.6	62.5	123.2	50.7
1960	50.9	81.0	42.5	75.1	67.7	62.8	119.8	52.4
1961	51.4	80.5	43.5	74.8	68.7	63.8	118.0	54.1
1962	54.7	81.1	45.8	75.7	72.3	67.5	119.4	56.5
1963	56.8	80.6	48.1	75.6	75.1	70.4	118.2	59.6
1964	60.3	83.1	50.7	78.1	77.2	72.5	118.8	61.0
1965	64.2	85.3	54.6	80.5	79.7	75.3	117.6	64.0
1966	67.7	85.5	59.3	81.5	83.1	79.2	114.1	69.4
1967	69.4	84.7	62.0	81.2	85.5	81.9	112.0	73.1
1968	73.6	84.1	66.3	81.3	90.5	87.5	111.0	78.8
1969	75.2	91.9	71.0	88.6	84.8	81.8	105.9	77.2
1970	76.4	88.4	74.0	86.1	88.8	86.5	103.3	83.7
1971	80.3	89.8	78.4	88.0	91.2	89.4	102.5	87.2
1972	86.4	92.2	82.7	90.7	95.3	93.7	104.5	89.7
1973	91.5	94.5	87.6	93.4	97.9	96.8	104.5	92.7
1974	89.7	94.4	90.8	93.8	95.6	95.0	98.7	96.2
1975	90.8	94.3	91.0	93.8	96.8	96.3	99.8	96.5
1976	95.4	96.8	95.0	96.5	98.8	98.5	100.4	98.1
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.9	103.4	105.4	103.7	101.2	101.4	99.5	101.9
1979	107.5	105.7	108.8	106.1	101.3	101.7	98.8	102.9

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

7. Finance and Insurance

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	31.1	43.8	13.7	38.3	81.2	70.9	227.6	31.2
1949	31.9	44.4	13.6	38.7	82.2	71.7	234.2	30.6
1950	33.7	45.5	13.6	39.7	85.1	74.1	247.7	29.9
1951	36.2	46.8	13.7	40.7	88.9	77.4	264.8	29.2
1952	37.8	48.6	14.1	42.2	89.4	77.8	267.2	29.1
1953	39.5	50.2	15.0	43.7	90.4	78.8	264.1	29.8
1954	41.1	52.1	14.9	45.3	90.8	78.9	276.5	28.5
1955	44.1	54.3	15.6	47.2	93.4	81.2	282.6	28.7
1956	47.0	55.3	16.3	48.1	97.6	85.0	288.4	29.5
1957	48.8	56.2	16.9	49.0	99.7	86.9	289.8	30.0
1958	49.0	57.8	17.9	50.4	97.1	84.7	274.3	30.9
1959	50.3	59.8	19.3	52.3	96.2	84.2	261.2	32.2
1960	53.1	61.8	20.6	54.3	97.8	85.8	257.2	33.4
1961	54.8	63.1	22.4	55.7	98.5	86.9	245.2	35.4
1962	56.8	65.1	24.4	57.7	98.4	87.3	232.7	37.5
1963	58.3	66.3	27.0	59.3	98.3	87.9	215.6	40.7
1964	60.5	68.6	32.1	62.2	97.3	88.3	188.3	46.9
1965	62.4	70.3	34.8	64.2	97.3	88.8	179.4	49.5
1966	64.9	71.1	37.0	65.3	99.4	91.3	175.4	52.1
1967	68.1	73.3	40.2	67.7	100.5	92.9	169.3	54.9
1968	72.7	76.8	42.5	71.1	102.3	94.6	170.9	55.3
1969	77.9	81.0	48.6	75.8	102.7	96.1	160.1	60.0
1970	79.8	82.7	52.9	77.9	102.5	96.6	150.8	64.1
1971	81.4	84.6	57.2	80.1	101.5	96.2	142.3	67.6
1972	84.3	87.1	64.3	83.4	101.1	96.8	131.1	73.8
1973	88.6	90.6	71.9	87.6	101.2	97.8	123.3	79.4
1974	92.5	93.0	78.7	90.7	101.9	99.4	117.5	84.6
1975	94.5	94.6	84.6	93.0	101.6	99.9	111.8	89.3
1976	95.6	96.4	91.6	95.6	99.9	99.1	104.4	95.0
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.6	105.7	109.2	106.1	98.6	99.0	95.8	103.3
1979	108.5	110.4	119.2	111.6	97.2	98.3	91.0	108.0

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

8. Real Estate

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	39.4	52.8	61.2	60.2	65.4	74.6	64.4	115.9
1949	41.4	53.6	61.5	60.6	68.3	77.3	67.3	114.8
1950	43.7	54.3	62.1	61.2	71.5	80.6	70.5	114.4
1951	43.3	55.0	62.3	61.5	70.5	78.8	69.5	113.4
1952	45.2	55.9	62.4	61.7	73.3	80.9	72.4	111.6
1953	45.4	57.7	62.7	62.1	73.1	78.7	72.5	108.6
1954	46.3	59.6	63.4	63.0	73.5	77.7	73.0	106.4
1955	47.7	61.7	64.3	64.0	74.6	77.4	74.2	104.3
1956	48.6	62.5	64.9	64.6	75.2	77.7	74.9	103.8
1957	50.1	63.7	65.6	65.4	76.6	78.6	76.3	103.0
1958	52.3	65.4	66.2	66.1	79.1	80.0	79.0	101.2
1959	55.5	66.7	67.1	67.1	82.8	83.2	82.7	100.6
1960	55.9	67.0	68.2	68.1	82.1	83.5	82.0	101.8
1961	58.1	66.2	69.5	69.2	83.9	87.8	83.7	104.9
1962	61.6	67.5	71.1	70.9	86.9	91.2	86.6	105.3
1963	62.3	73.3	73.0	73.0	85.2	85.0	85.3	99.6
1964	64.8	74.5	74.5	74.5	87.0	87.0	87.0	100.0
1965	68.5	74.5	76.7	76.5	89.5	91.9	89.3	102.9
1966	70.3	72.1	78.6	78.1	89.9	97.4	89.4	109.0
1967	71.5	73.0	80.1	79.6	89.8	97.9	89.2	109.7
1968	73.4	72.8	81.6	81.0	90.6	100.8	89.9	112.1
1969	75.1	77.7	83.5	83.1	90.4	96.7	89.9	107.6
1970	74.9	79.1	85.6	85.1	88.0	94.7	87.5	108.2
1971	80.0	84.1	88.3	87.9	90.9	95.1	90.6	105.0
1972	82.9	88.2	91.2	91.0	91.1	94.0	90.9	103.4
1973	84.5	91.4	94.6	94.3	89.6	92.5	89.4	103.5
1974	86.6	92.5	96.1	95.8	90.4	93.7	90.2	103.9
1975	85.4	91.3	97.1	96.7	88.4	93.5	88.0	106.3
1976	89.9	93.6	98.3	98.0	91.7	96.0	91.4	105.0
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	102.2	110.9	101.9	102.9	99.3	92.1	100.3	91.9
1979	101.5	118.6	103.8	105.3	96.4	85.7	97.8	87.6

PRELIMINARY: April 13, 1981

TABLE V. MAJOR NONFARM NONMANUFACTURING INDUSTRIES

9. Services

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	32.5	44.5	27.7	39.1	83.1	72.9	117.4	62.1
1949	32.6	45.3	28.5	39.9	81.7	71.9	114.4	62.8
1950	33.9	45.5	29.6	40.3	84.1	74.5	114.5	65.1
1951	34.4	46.3	30.8	41.2	83.5	74.3	111.8	66.4
1952	36.7	48.0	31.8	42.6	86.0	76.4	115.3	66.3
1953	37.8	49.5	33.1	44.1	85.8	76.4	114.4	66.8
1954	38.0	50.6	34.4	45.2	84.1	75.1	110.7	67.9
1955	39.4	52.9	36.0	47.3	83.3	74.5	109.5	68.0
1956	40.3	55.5	37.7	49.6	81.3	72.7	106.8	68.0
1957	40.4	56.8	39.5	51.0	79.2	71.1	102.4	69.5
1958	43.4	56.4	41.3	51.3	84.7	76.9	105.3	73.1
1959	40.6	58.2	43.2	53.0	76.6	69.9	94.0	74.4
1960	46.0	60.1	45.4	55.0	83.7	76.6	101.5	75.5
1961	49.3	61.1	47.8	56.5	87.2	80.7	103.0	78.3
1962	50.2	62.3	50.6	58.3	86.1	80.5	99.2	81.2
1963	49.9	64.7	53.3	60.8	82.0	77.1	93.5	82.4
1964	54.5	65.7	56.5	62.5	87.2	83.0	96.6	86.0
1965	57.8	67.2	59.7	64.6	89.4	85.9	96.7	88.8
1966	60.9	69.9	63.1	67.6	90.2	87.2	96.5	90.4
1967	65.7	74.7	66.4	71.8	91.5	87.9	99.0	88.8
1968	66.8	79.1	70.3	76.1	87.9	84.5	95.0	89.0
1969	69.0	74.5	74.3	74.4	92.8	92.7	92.9	99.8
1970	70.7	82.2	77.7	80.8	87.5	86.0	91.1	94.4
1971	70.7	83.1	80.7	82.3	85.8	85.0	87.6	97.1
1972	75.2	84.0	84.1	84.0	89.5	89.6	89.4	100.2
1973	84.5	88.0	87.9	88.0	96.0	96.0	96.1	99.9
1974	89.7	92.6	91.2	92.2	97.4	96.9	98.4	98.5
1975	86.7	92.5	93.9	92.9	93.3	93.8	92.3	101.5
1976	93.6	95.3	96.8	95.8	97.7	98.2	96.7	101.5
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	103.8	105.4	103.4	105.0	98.9	98.5	100.4	98.1
1979	106.8	110.2	106.6	109.3	97.7	96.9	100.1	96.8

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

1. Food

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	46.4	113.3	72.1	102.0	45.4	40.9	64.3	63.6
1949	45.2	110.8	74.7	101.1	44.7	40.8	60.6	67.4
1950	48.3	110.6	76.6	101.6	47.5	43.7	63.0	69.3
1951	48.9	112.9	78.3	103.7	47.2	43.3	62.5	69.3
1952	51.6	112.5	77.2	103.0	50.1	45.9	66.9	68.7
1953	54.7	112.2	76.2	102.6	53.3	48.7	71.8	67.9
1954	54.1	110.7	76.1	101.5	53.3	48.8	71.1	68.7
1955	55.3	111.1	78.3	102.4	54.0	49.8	70.7	70.5
1956	57.8	111.6	78.9	103.0	56.1	51.8	73.3	70.7
1957	59.9	108.5	78.9	100.8	59.4	55.2	75.9	72.7
1958	60.3	106.8	79.6	99.9	60.4	56.5	75.7	74.6
1959	61.1	107.6	79.6	100.4	60.8	56.7	76.7	74.0
1960	62.3	107.5	78.8	100.1	62.2	58.0	79.1	73.3
1961	62.9	106.7	79.2	99.7	63.1	58.9	79.4	74.2
1962	65.5	105.8	80.3	99.3	65.9	61.9	81.6	75.9
1963	70.1	105.3	80.8	99.1	70.8	66.6	86.8	76.8
1964	71.0	105.1	81.3	99.1	71.7	67.6	87.4	77.4
1965	74.2	106.3	80.8	99.8	74.3	69.7	91.7	76.0
1966	78.3	107.3	82.6	101.0	77.5	73.0	94.8	77.0
1967	77.1	107.6	84.9	101.9	75.6	71.6	90.8	78.9
1968	78.1	107.1	86.3	101.9	76.6	72.9	90.6	80.5
1969	81.6	107.6	86.8	102.4	79.6	75.8	93.9	80.7
1970	82.7	106.5	88.1	101.9	81.2	77.7	93.9	82.7
1971	86.0	104.3	89.5	100.6	85.5	82.5	96.1	85.8
1972	91.2	103.3	90.3	100.0	91.1	88.3	101.0	87.4
1973	101.2	101.5	90.5	98.7	102.5	99.8	111.8	89.2
1974	95.0	101.1	92.3	98.9	96.0	94.0	102.9	91.3
1975	95.6	98.1	95.2	97.4	98.2	97.4	100.5	97.0
1976	99.6	100.2	98.2	99.7	99.9	99.4	101.4	97.9
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	99.9	100.1	102.2	100.7	99.3	99.8	97.7	102.1
1979	105.0	100.7	105.7	102.0	102.9	104.3	99.3	105.0

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

2. Tobacco

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	54.4	163.6	51.3	99.3	54.8	33.3	106.1	31.4
1949	58.3	152.9	54.8	95.9	60.8	38.2	106.5	35.8
1950	55.3	146.7	53.2	92.3	59.9	37.7	104.0	36.3
1951	66.8	149.7	63.2	98.3	67.9	44.6	105.6	42.3
1952	64.6	151.3	64.5	99.6	64.9	42.7	100.3	42.6
1953	59.6	147.5	64.1	97.7	61.0	40.4	93.0	43.4
1954	55.9	145.6	62.6	96.1	58.1	38.4	89.2	43.0
1955	59.4	147.9	66.3	98.9	60.1	40.2	89.7	44.8
1956	63.0	144.3	63.0	95.7	65.8	43.7	99.9	43.7
1957	65.7	139.5	64.4	94.2	69.8	47.1	102.0	46.2
1958	70.0	138.8	64.2	93.7	74.7	50.5	109.1	46.2
1959	74.3	137.9	64.2	93.3	79.6	53.9	115.7	46.5
1960	76.7	134.5	66.1	93.1	82.4	57.0	116.0	49.2
1961	79.9	132.3	67.7	93.2	85.7	60.4	117.9	51.2
1962	82.7	130.2	69.7	93.6	88.4	63.5	118.6	53.6
1963	83.4	127.4	71.4	93.5	89.3	55.5	116.9	56.0
1964	80.2	130.3	72.7	95.4	84.1	61.6	110.3	55.8
1965	79.4	122.5	75.2	93.8	84.5	64.8	105.6	61.3
1966	80.7	123.6	77.9	95.9	84.1	65.2	103.5	63.0
1967	83.4	125.0	80.1	97.7	85.4	66.7	104.2	64.0
1968	84.6	120.3	82.5	97.3	87.0	70.4	102.6	68.6
1969	85.9	116.1	83.5	96.3	89.2	74.0	102.8	71.9
1970	91.0	117.6	82.7	96.4	94.5	77.4	110.0	70.3
1971	92.6	109.5	84.4	94.2	98.2	84.5	109.7	77.0
1972	95.0	105.6	87.5	94.6	100.4	89.9	108.5	82.9
1973	99.5	112.0	91.6	99.6	99.9	88.9	108.6	81.8
1974	99.4	110.7	96.1	101.8	97.6	89.8	103.4	86.8
1975	102.2	108.4	95.3	100.4	101.8	94.3	107.2	87.9
1976	104.1	107.5	97.3	101.3	102.8	96.8	107.0	90.5
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	101.2	99.3	101.9	101.0	100.2	101.9	99.3	102.6
1979	103.1	94.4	102.8	99.6	103.5	109.2	100.3	108.9

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

3. Textiles

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	38.8	141.6	39.2	112.5	34.5	27.4	99.0	27.7
1949	35.5	121.9	44.5	100.2	35.4	29.1	79.8	36.5
1950	37.2	134.6	53.1	112.0	33.3	27.7	70.1	39.5
1951	39.1	129.8	60.5	111.0	35.2	30.1	64.5	46.6
1952	38.4	122.9	60.2	106.0	36.2	31.2	63.7	49.0
1953	37.7	122.2	63.3	106.5	35.4	30.8	59.5	51.8
1954	35.7	108.4	65.2	97.4	36.6	32.9	54.7	60.1
1955	39.7	113.8	69.0	102.4	38.7	34.9	57.5	60.6
1956	40.4	110.8	73.8	101.9	39.7	36.5	54.7	66.6
1957	39.4	103.5	72.6	96.4	40.9	38.1	54.4	70.1
1958	38.8	96.5	73.8	91.8	42.3	40.2	52.6	76.5
1959	42.5	103.3	73.4	96.5	44.1	41.2	57.9	71.1
1960	41.0	99.1	73.5	93.2	44.0	41.4	55.7	74.2
1961	41.7	96.6	73.4	91.2	45.7	43.2	56.8	76.0
1962	44.3	98.9	73.9	93.1	47.6	44.8	60.0	74.7
1963	56.1	97.0	74.2	91.7	61.2	57.9	75.7	76.5
1964	59.7	98.7	75.1	93.3	64.0	60.5	79.5	76.1
1965	65.5	104.5	77.2	98.2	66.7	62.7	84.8	73.9
1966	71.1	109.1	81.3	102.7	69.3	65.2	87.5	74.5
1967	69.1	106.7	83.8	101.4	68.2	64.8	82.5	78.5
1968	72.7	111.7	85.8	105.7	68.7	65.0	84.7	76.8
1969	74.4	111.1	88.0	105.7	70.4	67.0	84.6	79.2
1970	78.7	105.9	89.0	102.0	77.2	74.3	88.4	84.0
1971	81.9	105.7	90.5	102.2	80.2	77.5	90.5	85.6
1972	87.9	111.0	93.5	106.9	82.2	79.2	94.0	84.2
1973	91.4	112.3	95.9	108.5	84.3	81.4	95.3	85.5
1974	80.3	103.8	98.4	102.5	78.4	77.4	81.6	94.9
1975	76.5	93.2	97.9	94.3	81.2	82.1	78.2	105.1
1976	87.9	100.2	98.8	99.9	88.0	87.7	89.0	98.5
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	101.2	99.6	100.7	99.8	101.4	101.6	100.5	101.1
1979	102.9	97.9	100.5	98.5	104.4	105.0	102.3	102.6

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

4. Apparel

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	43.2	92.0	57.0	88.6	48.8	47.0	75.8	62.0
1949	43.1	89.9	55.3	86.6	49.8	47.9	77.8	61.5
1950	46.7	92.9	57.5	89.5	52.2	50.3	81.2	61.9
1951	49.4	92.1	55.0	88.4	55.9	53.7	89.9	59.7
1952	50.5	94.4	55.4	90.6	55.8	53.5	91.2	58.7
1953	51.1	96.4	55.8	92.4	55.3	52.9	91.6	57.8
1954	48.0	89.8	53.7	86.2	55.6	53.4	89.3	59.8
1955	51.5	94.5	54.2	90.4	56.9	54.5	95.0	57.3
1956	52.6	94.1	48.5	89.3	58.9	55.9	108.6	51.5
1957	51.9	92.6	49.9	88.2	58.9	56.0	104.1	53.8
1958	50.9	88.4	49.0	84.4	60.4	57.6	103.9	55.5
1959	54.2	95.0	50.0	90.3	60.0	57.0	108.5	52.6
1960	56.1	93.8	51.9	89.3	62.8	59.8	108.2	55.3
1961	55.1	92.0	53.3	87.8	62.8	59.9	103.4	58.0
1962	58.3	97.4	55.4	92.9	62.8	59.9	105.2	56.9
1963	60.9	98.7	57.7	94.3	64.5	61.7	105.4	58.5
1964	63.0	99.4	59.4	95.1	66.2	63.4	106.0	59.7
1965	69.2	105.4	62.8	100.8	68.6	65.6	110.1	59.6
1966	74.8	109.0	67.0	104.5	71.6	68.6	111.6	61.5
1967	73.5	107.5	70.7	103.4	71.1	68.4	103.9	65.8
1968	76.7	107.9	75.3	104.3	73.5	71.1	101.8	69.8
1969	76.5	107.7	79.0	104.4	73.3	71.0	96.8	73.4
1970	71.2	102.8	80.6	100.2	71.0	69.2	88.3	78.4
1971	71.7	102.2	83.7	100.1	71.6	70.1	85.7	81.9
1972	87.8	106.5	87.5	104.3	84.2	82.5	100.4	82.2
1973	93.9	109.9	91.3	107.8	87.1	85.4	102.8	83.0
1974	93.5	102.5	95.2	101.6	92.0	91.2	98.2	92.9
1975	91.2	93.7	94.8	93.8	97.2	97.4	96.2	101.2
1976	96.5	100.6	97.4	100.2	96.2	95.9	99.0	96.8
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	105.9	101.4	101.4	101.4	104.4	104.4	104.4	100.0
1979	108.1	99.2	101.6	99.5	108.6	108.9	106.4	102.4

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

5. Lumber

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	45.1	119.4	88.7	110.4	40.9	37.8	50.9	74.2
1949	39.6	107.3	80.7	99.5	39.8	36.9	49.1	75.2
1950	42.3	115.8	74.6	104.1	40.6	36.5	56.7	64.4
1951	42.8	119.5	72.4	106.3	40.3	35.8	59.1	60.6
1952	42.4	114.4	67.9	101.5	41.7	37.0	62.4	59.3
1953	40.4	111.3	63.0	97.9	41.2	36.3	64.1	56.6
1954	39.0	102.8	60.3	91.0	42.8	37.9	64.6	58.7
1955	45.2	107.4	58.6	93.9	48.1	42.1	77.1	54.5
1956	45.3	104.4	57.9	91.5	49.4	43.4	78.1	55.5
1957	42.7	94.1	50.0	82.0	52.1	45.4	85.5	53.1
1958	39.7	89.8	47.7	78.2	50.7	44.2	83.2	53.1
1959	47.0	97.9	45.9	83.8	56.1	48.0	102.4	46.9
1960	43.9	92.5	48.0	80.1	54.8	47.5	91.5	52.0
1961	42.1	87.9	48.5	76.8	54.9	48.0	86.9	55.2
1962	42.3	89.1	49.7	78.0	54.2	47.4	85.0	55.8
1963	52.7	87.4	52.2	77.2	68.3	60.4	101.0	59.8
1964	64.0	90.5	54.1	80.0	79.9	70.7	118.3	59.7
1965	71.7	93.4	57.3	82.9	86.4	76.7	125.1	61.3
1966	70.0	94.5	61.0	84.5	82.9	74.1	114.7	64.6
1967	71.9	91.8	62.7	82.9	86.8	78.4	114.7	68.3
1968	74.8	91.3	64.6	82.9	90.2	81.9	115.9	70.7
1969	73.8	94.8	68.3	86.4	85.4	77.8	108.1	72.0
1970	75.7	89.2	70.5	83.3	90.9	84.9	107.4	79.1
1971	77.8	92.3	73.3	86.3	90.2	84.3	106.1	79.4
1972	88.6	101.1	77.9	93.7	94.6	87.7	113.7	77.1
1973	93.2	105.0	83.0	98.0	95.1	88.7	112.2	79.1
1974	90.9	96.6	90.3	94.6	96.1	94.0	100.7	93.4
1975	86.0	81.9	92.0	85.1	101.0	105.0	93.4	112.4
1976	94.9	94.1	95.6	94.6	100.4	100.9	99.2	101.7
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	101.4	104.3	106.0	104.9	96.6	97.1	95.6	101.6
1979	103.7	106.0	111.0	107.7	96.3	97.8	93.4	104.7

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

6. Furniture

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	42.8	77.1	66.0	75.1	57.0	55.6	64.9	85.7
1949	40.5	69.3	63.5	68.1	59.4	58.4	63.8	91.5
1950	49.1	81.8	66.0	79.1	62.1	60.1	74.5	80.7
1951	46.9	79.2	72.1	77.7	60.3	59.2	65.0	91.1
1952	51.9	79.7	74.0	78.4	66.2	65.2	70.2	92.8
1953	50.4	81.6	73.5	80.0	63.0	61.7	68.5	90.1
1954	48.3	74.3	71.6	73.4	65.8	65.1	67.5	96.4
1955	56.2	81.0	74.4	79.6	70.5	69.3	75.5	91.8
1956	56.5	82.1	79.3	81.2	69.6	68.8	71.2	96.6
1957	53.9	80.5	59.5	77.2	69.8	66.9	90.6	73.9
1958	49.1	76.7	59.1	73.8	66.5	64.0	83.1	77.1
1959	56.1	83.9	60.0	80.2	69.9	66.8	93.5	71.5
1960	55.3	82.4	60.4	79.0	70.1	67.1	91.6	73.3
1961	53.3	79.2	60.1	76.1	70.1	67.3	88.8	75.8
1962	57.6	83.8	60.7	80.1	71.9	68.8	94.9	72.5
1963	60.2	83.7	62.1	80.3	75.0	71.9	96.9	74.2
1964	65.3	87.6	63.3	83.8	77.9	74.6	103.2	72.2
1965	73.7	93.3	65.9	89.1	82.8	79.0	111.9	70.6
1966	78.0	98.7	70.8	94.3	82.7	79.0	110.3	71.7
1967	74.0	96.5	73.6	92.8	79.8	76.7	100.6	76.3
1968	79.5	99.2	75.4	95.3	83.4	80.1	105.3	76.1
1969	84.8	100.7	79.1	97.1	87.3	84.2	107.2	78.6
1970	72.8	93.2	82.6	91.4	79.7	78.1	88.2	88.6
1971	76.3	95.8	83.7	93.7	81.4	79.7	91.2	87.4
1972	92.2	104.9	87.6	102.0	90.4	88.0	105.3	83.6
1973	94.5	109.5	93.2	106.8	88.5	86.3	101.4	85.2
1974	91.3	103.8	98.3	102.9	88.7	88.0	92.9	94.7
1975	80.2	86.3	95.6	87.9	91.3	92.9	83.9	110.8
1976	92.2	92.8	97.8	93.6	98.5	99.4	94.3	105.3
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	109.2	105.4	104.9	105.3	103.7	103.6	104.1	99.5
1979	112.6	101.6	108.8	102.8	109.5	110.8	103.5	107.1

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

7. Paper

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	30.2	68.1	41.2	59.6	50.7	44.3	73.2	60.5
1949	30.1	64.1	42.4	57.4	52.4	47.0	71.0	66.2
1950	39.2	70.4	43.6	62.0	63.2	55.6	89.8	61.9
1951	41.9	73.8	45.2	64.8	64.7	56.7	92.7	61.2
1952	38.5	72.2	46.4	64.2	60.1	53.4	83.1	64.3
1953	40.8	76.5	47.2	67.3	60.7	53.4	86.4	61.8
1954	41.9	75.5	48.6	67.2	62.4	55.5	86.2	64.3
1955	46.2	79.3	50.6	70.4	65.6	58.2	91.3	63.8
1956	47.5	81.4	52.9	72.5	65.5	58.4	89.9	64.9
1957	44.0	81.1	54.6	73.0	60.2	54.2	80.6	67.3
1958	44.3	79.6	55.4	72.3	61.2	55.6	80.0	69.5
1959	50.1	84.1	56.5	75.7	66.2	59.6	88.6	67.2
1960	49.2	85.0	57.7	76.7	64.1	57.9	85.2	67.9
1961	51.8	85.7	58.9	77.6	66.8	60.5	87.9	68.8
1962	54.2	87.4	60.4	79.2	68.4	62.0	89.6	69.1
1963	55.2	88.4	61.3	80.2	68.8	62.4	90.0	69.3
1964	59.4	89.7	63.1	81.7	72.8	66.2	94.2	70.3
1965	62.4	92.4	65.9	84.4	73.9	67.6	94.7	71.4
1966	66.7	97.1	70.0	89.0	75.0	68.7	95.4	72.0
1967	63.9	98.0	73.6	90.8	70.4	65.2	86.8	75.1
1968	71.9	100.1	75.9	93.0	77.3	71.8	94.7	75.7
1969	78.9	102.9	78.3	95.6	82.5	76.7	100.8	76.1
1970	74.2	99.9	81.0	94.4	78.6	74.2	91.6	81.0
1971	78.6	97.0	81.9	92.5	84.9	81.0	95.9	84.5
1972	87.8	99.5	83.0	94.7	92.7	88.2	105.7	83.4
1973	98.2	101.9	84.9	96.9	101.3	96.3	115.6	83.3
1974	99.3	100.5	89.6	97.3	102.0	98.8	110.8	89.1
1975	82.9	90.3	92.2	90.9	91.3	91.8	90.0	102.1
1976	94.6	96.7	96.0	96.5	98.0	97.8	98.5	99.3
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	102.2	101.5	104.1	102.3	100.0	100.8	98.2	102.6
1979	105.2	102.7	110.0	104.8	100.3	102.5	95.6	107.1

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

8. Printing & Publishing

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	43.0	70.5	50.5	66.7	64.6	61.0	85.2	71.7
1949	45.1	69.5	50.5	65.8	68.6	65.0	89.3	72.7
1950	45.5	69.6	50.7	65.9	69.0	65.4	89.7	72.9
1951	46.5	71.0	50.7	67.1	69.3	65.5	91.6	71.5
1952	47.4	71.8	49.7	67.6	70.1	66.0	95.3	69.2
1953	49.4	74.1	48.6	69.2	71.3	66.7	101.6	65.6
1954	52.0	74.2	47.9	69.2	75.1	70.0	108.4	64.6
1955	55.3	76.3	48.0	71.0	77.9	72.4	115.1	62.9
1956	57.4	78.7	47.4	72.8	78.9	73.0	121.1	60.3
1957	58.2	79.0	47.1	73.0	79.8	73.7	123.6	59.6
1958	56.7	78.0	47.2	72.2	78.5	72.7	120.2	60.5
1959	61.0	80.0	49.9	74.3	82.0	76.2	122.1	62.5
1960	62.5	82.0	52.2	76.4	81.8	76.2	119.7	63.6
1961	63.3	81.9	54.2	76.6	82.6	77.2	116.9	66.1
1962	65.9	82.5	56.4	77.5	85.1	79.9	116.9	68.4
1963	71.4	83.3	58.5	78.5	91.0	85.8	122.0	70.3
1964	78.4	84.9	60.4	80.1	97.8	92.3	129.8	71.1
1965	80.6	88.3	63.0	83.4	96.7	91.3	128.0	71.4
1966	84.8	91.0	66.8	86.2	98.4	93.2	127.0	73.4
1967	86.2	93.0	70.8	88.6	97.4	92.7	121.7	76.2
1968	88.1	94.2	74.3	90.1	97.8	93.6	118.7	78.8
1969	93.0	96.6	77.5	92.6	100.3	96.3	119.9	80.3
1970	88.0	96.0	79.6	92.6	95.0	91.7	110.5	83.0
1971	88.6	93.5	83.1	91.3	97.0	94.8	106.5	89.0
1972	92.9	95.1	86.5	93.4	99.6	97.7	107.4	91.0
1973	100.1	97.2	89.9	95.7	104.6	103.0	111.4	92.4
1974	95.2	97.0	93.0	96.2	98.9	98.1	102.3	95.9
1975	94.8	94.3	94.3	94..	100.5	100.5	100.5	100.1
1976	95.9	95.7	96.6	95.9	100.0	100.2	99.2	101.0
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	103.9	104.7	104.6	104.7	99.2	99.2	99.3	99.9
1979	106.4	109.7	108.5	109.4	97.2	97.0	98.1	98.9

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

9. Chemicals

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	17.3	61.4	28.6	47.3	36.5	28.1	60.4	46.6
1949	16.9	57.5	30.7	46.1	36.8	29.5	55.2	53.4
1950	20.3	59.8	32.8	48.3	41.9	33.9	61.8	54.9
1951	21.7	65.9	36.1	53.3	40.7	32.9	60.1	54.7
1952	21.9	67.3	39.1	55.4	39.4	32.5	55.9	58.1
1953	23.4	71.0	41.3	58.5	40.1	33.0	56.8	58.1
1954	24.7	69.5	43.3	58.6	42.0	35.5	56.9	62.4
1955	28.4	71.5	45.3	60.6	46.9	39.8	62.8	63.3
1956	29.8	73.7	47.7	63.0	47.2	40.4	62.4	64.8
1957	31.1	74.7	49.9	64.6	48.0	41.5	62.2	66.8
1958	30.5	73.1	51.7	64.6	47.2	41.7	59.0	70.7
1959	35.0	75.3	53.4	66.6	53.7	47.5	67.0	70.9
1960	35.5	77.1	53.9	67.8	52.4	46.1	65.9	69.9
1961	37.3	77.2	55.1	68.4	54.5	48.3	67.6	71.4
1962	39.9	79.1	56.4	70.1	56.9	50.4	70.8	71.2
1963	44.7	80.5	57.4	71.3	62.6	55.5	77.9	71.2
1964	48.4	81.9	59.0	72.9	66.4	59.1	82.0	72.0
1965	52.8	85.2	62.3	76.2	69.3	62.0	84.8	73.1
1966	56.2	90.0	66.0	80.6	69.8	62.5	85.2	73.3
1967	57.3	93.3	69.5	84.0	68.2	61.4	82.5	74.4
1968	65.2	96.7	72.1	87.1	74.9	67.4	90.5	74.5
1969	68.0	99.1	75.0	89.8	75.7	68.6	90.7	75.6
1970	68.8	97.9	77.5	90.0	76.4	70.2	88.8	79.1
1971	73.0	94.5	79.1	88.5	82.4	77.2	92.3	83.7
1972	79.9	94.4	79.9	88.8	89.9	84.6	99.9	84.7
1973	87.6	97.1	81.1	90.9	96.4	90.3	108.0	83.6
1974	85.4	98.5	85.9	93.7	91.2	86.7	99.5	87.2
1975	85.0	93.3	89.4	91.8	92.6	91.1	95.1	95.8
1976	95.1	96.9	94.2	95.9	99.3	98.2	101.0	97.2
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	103.3	102.7	103.9	103.2	100.1	100.5	99.4	101.1
1979	109.0	104.3	108.2	105.8	103.0	104.5	100.8	103.7

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

10. Petroleum

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	37.4	108.1	41.0	63.4	59.1	34.6	91.2	38.0
1949	40.2	104.4	43.2	64.0	62.7	38.5	92.9	41.4
1950	43.4	103.6	43.4	64.0	67.9	41.9	100.0	41.9
1951	45.2	109.7	45.2	67.1	67.3	41.2	99.9	41.2
1952	45.6	110.4	47.7	69.3	65.9	41.4	95.6	43.3
1953	47.6	114.3	50.8	72.8	65.4	41.7	93.7	44.5
1954	47.5	113.1	52.7	74.0	64.2	42.0	90.0	46.6
1955	52.6	112.7	54.4	75.2	70.0	46.7	96.6	48.3
1956	54.2	112.4	56.5	76.7	70.6	48.2	95.9	50.2
1957	52.6	110.6	60.5	79.3	66.3	47.5	86.9	54.7
1958	53.7	107.2	59.5	77.6	69.2	50.1	90.2	55.5
1959	60.6	103.4	59.3	76.3	79.5	58.6	102.2	57.3
1960	62.2	101.8	60.4	76.3	81.5	61.1	103.0	59.4
1961	64.5	97.2	61.8	75.3	85.7	66.4	104.4	63.6
1962	69.6	94.6	62.9	74.9	92.9	73.6	110.7	66.5
1963	71.8	90.8	63.5	73.8	97.4	79.1	113.2	69.9
1964	73.6	88.6	63.9	73.2	100.6	83.1	115.1	72.2
1965	77.4	89.3	65.2	74.2	104.4	86.8	118.7	73.1
1966	79.1	90.9	66.9	75.8	104.2	87.0	118.2	73.6
1967	75.9	91.2	69.9	77.7	101.5	86.5	112.8	76.7
1968	81.1	92.1	72.9	79.9	101.5	88.0	111.2	79.2
1969	77.7	89.9	75.5	80.5	96.5	86.4	102.9	84.0
1970	89.4	95.0	78.2	84.1	106.3	94.1	114.3	82.3
1971	94.6	97.0	81.1	86.6	109.2	97.5	116.7	83.5
1972	91.8	96.8	82.6	87.6	104.8	94.8	111.1	85.3
1973	107.0	95.1	83.7	87.7	122.0	112.5	127.9	88.0
1974	102.5	96.2	87.7	90.7	113.0	106.5	116.8	91.2
1975	91.8	93.1	92.0	92.4	99.3	98.5	99.7	98.8
1976	101.1	96.7	96.6	96.6	104.6	104.5	104.7	99.9
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.5	105.5	102.3	103.1	101.4	99.1	102.2	97.0
1979	111.5	108.7	104.3	105.5	105.7	102.5	106.9	95.9

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

11. Rubber

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	22.8	42.2	29.6	39.4	57.9	54.1	77.1	70.1
1949	20.9	37.7	30.5	36.1	57.9	55.5	68.4	81.1
1950	23.5	43.8	28.1	40.3	58.3	53.6	83.7	64.1
1951	30.3	46.7	33.0	43.7	69.4	64.9	91.7	70.8
1952	30.6	47.3	35.6	44.7	68.4	64.6	85.8	75.3
1953	30.3	50.0	37.7	47.3	64.0	60.5	80.4	75.3
1954	27.2	45.0	38.4	43.6	62.3	60.4	70.7	85.4
1955	30.1	52.0	39.2	49.1	61.3	58.0	77.0	75.4
1956	29.8	51.1	41.3	48.9	60.8	58.3	72.1	80.8
1957	29.6	51.9	42.5	49.8	59.4	57.0	69.6	81.9
1958	28.7	46.5	43.9	46.0	62.3	61.6	65.3	94.4
1959	35.7	52.7	45.5	51.2	69.9	67.9	78.6	86.4
1960	35.9	51.9	46.7	50.9	70.5	69.1	76.9	89.9
1961	37.7	51.9	47.0	50.9	74.1	72.8	80.3	90.6
1962	43.3	57.1	48.7	55.3	78.3	75.8	89.0	85.2
1963	47.2	58.4	49.4	56.5	83.7	80.9	95.6	84.6
1964	51.2	61.8	51.2	59.5	86.1	82.9	100.1	82.8
1965	55.7	67.8	54.6	64.9	85.8	82.1	102.0	80.5
1966	60.4	73.5	58.4	70.1	86.3	82.3	103.5	79.5
1967	60.7	73.5	61.4	70.8	85.7	82.6	99.0	83.5
1968	68.5	80.3	65.8	77.1	88.8	85.2	104.1	81.9
1969	75.7	84.4	70.5	81.4	93.0	89.7	107.3	83.6
1970	68.2	80.5	73.8	79.1	86.3	84.7	92.4	91.7
1971	74.3	80.8	75.8	79.7	93.2	91.9	98.0	93.8
1972	83.6	89.0	80.4	87.1	95.9	93.9	104.0	90.3
1973	95.4	97.7	86.3	95.2	100.3	97.7	110.6	88.4
1974	88.6	96.7	92.7	95.8	92.5	91.7	95.6	95.9
1975	80.7	83.6	93.2	85.7	94.2	96.6	86.6	111.5
1976	86.2	89.7	95.1	90.9	94.8	96.0	90.6	105.9
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	105.6	105.8	105.5	105.7	99.9	99.8	100.1	99.8
1979	106.4	107.4	108.6	107.7	98.8	99.0	98.0	101.1

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

12. Leather

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	103.4	161.5	72.3	150.5	68.7	64.0	143.0	44.8
1949	91.9	150.6	72.0	141.2	65.1	61.0	127.7	47.8
1950	91.3	156.0	86.3	148.7	61.4	58.6	105.8	55.3
1951	97.8	147.1	76.5	139.2	70.2	66.4	127.8	52.0
1952	86.2	154.7	84.5	147.2	58.6	55.7	102.0	54.6
1953	91.3	154.0	83.9	146.5	62.3	59.2	108.8	54.5
1954	83.9	145.0	83.8	138.9	60.4	57.8	100.1	57.8
1955	88.1	153.2	87.9	146.7	60.1	57.5	100.2	57.4
1956	88.7	151.0	68.3	140.8	63.0	58.7	129.9	45.2
1957	86.9	146.7	68.5	137.3	63.3	59.2	126.9	46.7
1958	82.1	139.2	67.3	130.7	62.8	59.0	121.9	48.4
1959	100.6	148.6	73.4	139.9	71.9	67.7	136.9	49.4
1960	90.6	141.2	74.6	133.3	67.9	64.1	121.4	52.8
1961	91.4	140.9	75.4	133.1	68.7	64.9	121.2	53.5
1962	99.0	142.0	76.6	134.2	73.8	69.7	129.2	54.0
1963	101.1	139.0	77.3	131.6	76.9	72.8	130.8	55.6
1964	103.3	137.6	77.9	130.4	79.3	75.1	132.7	56.6
1965	110.3	141.1	80.1	133.7	82.5	78.2	137.7	56.8
1966	114.8	147.4	83.7	139.7	82.1	77.8	137.2	56.7
1967	104.7	141.0	86.7	134.3	78.0	74.3	120.8	61.5
1968	108.6	143.2	90.9	136.7	79.5	75.8	119.5	63.5
1969	104.1	133.8	92.4	128.4	81.1	77.8	112.6	69.1
1970	94.6	125.6	92.2	121.2	78.0	75.3	102.6	73.4
1971	94.5	119.4	93.3	116.0	81.5	79.2	101.3	78.2
1972	96.6	119.3	95.1	116.1	83.2	81.0	101.5	79.8
1973	105.2	112.8	97.2	110.8	95.0	93.3	108.3	86.1
1974	97.9	105.1	99.2	104.3	93.8	93.1	98.7	94.4
1975	94.6	96.8	97.4	96.9	97.6	97.7	97.1	100.6
1976	107.3	103.1	98.7	102.5	104.6	104.0	108.7	95.7
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	101.2	101.7	101.2	101.7	99.6	99.5	100.0	99.6
1979	98.2	95.3	101.5	96.1	102.2	103.1	96.8	106.5

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

13. Stone, Clay, & Glass

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	47.8	81.7	38.2	69.5	68.8	58.5	125.2	46.7
1949	44.6	75.0	39.1	64.8	68.7	59.4	114.1	52.1
1950	53.4	81.9	40.8	70.3	75.9	65.2	130.9	49.8
1951	57.3	88.3	43.6	75.7	75.7	64.9	131.5	49.3
1952	55.0	84.3	44.8	73.1	75.2	65.3	122.6	53.2
1953	58.2	86.4	46.1	75.0	77.6	67.4	126.3	53.4
1954	56.7	81.8	47.2	71.9	78.8	69.3	120.1	57.7
1955	65.4	88.4	50.3	77.5	84.3	73.9	130.0	56.9
1956	64.3	90.3	54.4	80.0	80.4	71.3	118.2	60.3
1957	62.5	87.6	57.4	78.8	79.3	71.4	109.0	65.5
1958	61.0	82.2	58.8	75.3	81.0	74.2	103.8	71.4
1959	69.0	90.2	62.6	82.1	84.1	76.5	110.4	69.3
1960	67.5	89.2	64.0	81.9	82.3	75.6	105.4	71.7
1961	67.9	86.2	65.2	80.3	84.5	78.7	104.0	75.7
1962	71.3	87.9	66.5	81.9	87.1	81.1	107.3	75.6
1963	77.4	89.5	68.1	83.5	92.7	86.5	113.7	76.1
1964	82.6	92.6	69.6	86.1	96.0	89.3	118.8	75.2
1965	85.6	95.2	71.9	88.6	96.6	90.0	119.1	75.6
1966	86.1	97.5	75.4	91.4	94.2	88.3	114.1	77.4
1967	83.7	94.5	77.5	90.1	92.9	88.5	108.0	82.0
1968	87.3	96.1	78.8	91.6	95.4	90.9	110.8	82.0
1969	92.5	98.9	81.4	94.4	98.0	93.5	113.7	82.3
1970	88.9	95.6	83.4	92.5	96.2	93.0	106.6	87.2
1971	90.6	97.2	84.7	93.9	96.4	93.2	106.9	87.2
1972	99.4	103.0	87.3	98.9	100.5	96.5	113.9	84.7
1973	107.3	108.2	90.8	103.7	103.4	99.1	118.1	83.9
1974	100.6	105.7	94.6	102.8	97.9	95.3	106.4	89.6
1975	91.7	92.4	95.7	93.2	98.3	99.2	95.8	103.6
1976	100.6	95.8	97.7	96.3	104.5	105.0	103.0	102.0
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	109.2	105.2	104.3	105.0	104.0	103.8	104.7	99.2
1979	111.4	107.3	108.9	107.7	103.4	103.9	102.3	101.5

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

14. Primary Metals

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	81.4	101.6	39.4	84.1	96.8	80.1	206.3	38.8
1949	72.4	85.7	40.4	73.1	99.0	84.4	179.3	47.1
1950	85.6	99.7	41.9	83.5	102.6	85.9	204.3	42.0
1951	102.6	110.8	44.5	92.2	111.4	92.6	230.6	40.2
1952	91.5	102.1	47.9	87.0	105.2	89.6	190.9	46.9
1953	105.2	110.9	50.9	94.1	111.7	94.9	206.5	45.9
1954	82.2	92.8	52.2	81.7	100.6	88.6	157.5	56.3
1955	101.0	106.5	53.8	92.0	109.8	94.8	187.7	50.5
1956	99.8	108.5	57.5	94.5	105.6	91.9	173.6	53.0
1957	100.6	105.1	60.8	93.1	108.1	95.7	165.6	57.8
1958	76.4	86.9	63.3	80.9	94.3	87.8	120.6	72.8
1959	84.3	93.5	63.5	85.7	98.3	90.1	132.6	67.9
1960	82.8	94.5	65.6	87.0	95.2	87.7	126.3	69.4
1961	78.9	88.7	66.8	83.3	94.8	88.9	118.1	75.3
1962	83.9	91.7	67.4	85.5	98.0	91.5	124.5	73.5
1963	90.4	94.1	68.3	87.5	103.3	96.1	132.3	72.7
1964	102.2	101.1	70.1	93.1	109.8	101.1	145.8	69.3
1965	110.6	107.7	72.5	98.5	112.3	102.7	152.6	67.3
1966	118.0	111.3	76.4	102.2	115.4	106.0	154.4	68.7
1967	111.6	106.7	80.2	100.1	111.5	104.6	139.1	75.2
1968	111.)	107.6	82.9	101.6	109.3	103.2	134.0	77.0
1969	112.5	111.5	85.2	105.0	107.1	100.9	132.0	76.4
1970	103.1	104.4	87.7	100.3	102.7	98.7	117.5	84.0
1971	100.4	96.5	88.4	94.5	106.2	104.0	113.6	91.6
1972	1[illegible].1	99.7	89.5	97.2	110.2	107.4	119.6	89.8
1973	125.9	109.0	89.6	104.2	120.8	115.5	140.6	82.2
1974	127.4	109.9	92.7	105.7	120.6	115.9	137.4	84.4
1975	96.0	93.7	96.0	94.2	101.9	102.5	100.0	102.5
1976	100.0	96.5	98.4	97.0	103.2	103.7	101.7	102.0
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	109.1	104.3	101.6	103.8	105.1	104.6	107.4	97.4
1979	113.3	105.9	102.9	105.3	107.6	107.0	110.1	97.2

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

15. Fabricated Metals

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	38.5	65.8	26.3	57.7	66.7	58.5	146.3	40.0
1949	35.2	58.0	26.7	51.6	68.2	60.8	131.8	46.1
1950	42.0	66.9	29.3	59.3	70.8	62.7	143.1	43.8
1951	45.8	74.7	33.4	66.3	69.1	61.3	137.0	44.8
1952	48.9	75.3	35.4	67.3	72.6	64.9	137.9	47.0
1953	53.9	82.9	39.7	74.1	72.6	65.0	135.8	47.9
1954	49.4	73.9	38.7	66.9	73.9	66.9	127.7	52.4
1955	52.8	78.3	43.4	71.5	73.9	67.4	121.7	55.4
1956	53.7	78.8	45.7	72.3	74.2	68.1	117.5	58.0
1957	54.8	80.0	50.3	74.3	73.8	68.6	108.9	62.9
1958	49.8	72.3	49.3	68.1	73.2	68.9	101.2	68.1
1959	55.6	76.7	51.3	72.0	77.2	72.4	108.4	66.8
1960	55.6	76.9	52.3	72.3	76.9	72.3	106.2	68.0
1961	55.8	73.8	52.8	69.9	79.9	75.6	105.8	71.5
1962	60.8	78.1	54.0	73.6	82.6	77.9	112.6	69.2
1963	63.4	80.7	55.6	76.0	83.5	78.6	114.2	68.9
1964	67.5	83.2	58.8	78.7	85.8	81.1	114.7	70.7
1965	74.6	89.0	62.9	84.2	88.6	83.7	118.5	70.6
1966	81.7	96.8	67.1	91.3	89.5	84.4	121.8	69.3
1967	83.5	99.6	70.9	94.3	88.6	83.8	117.8	71.2
1968	88.3	103.8	75.0	98.4	89.8	85.1	117.8	72.2
1969	93.3	106.9	77.1	101.4	92.0	87.2	120.9	72.1
1970	85.2	97.9	78.1	94.2	90.4	87.0	109.1	79.7
1971	81.7	92.5	78.9	90.0	90.8	88.3	103.5	85.3
1972	89.9	98.2	81.1	95.0	94.6	91.5	110.8	82.6
1973	100.0	105.7	86.4	102.1	97.9	94.6	115.8	81.7
1974	90.4	103.0	92.8	101.1	89.4	87.7	97.4	90.1
1975	81.3	90.6	93.7	91.1	89.2	89.8	86.8	103.4
1976	92.0	95.3	96.7	95.5	96.3	96.6	95.2	101.4
1977	100.0	100.0	100.1	100.0	100.0	100.0	99.9	100.1
1978	104.4	105.7	104.7	105.5	99.0	98.8	99.7	99.1
1979	110.3	109.0	110.0	109.2	101.0	101.2	100.3	100.9

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

17. Electrical Machinery

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	16.0	51.1	26.2	46.2	34.7	31.4	61.2	51.3
1949	14.7	43.9	25.5	40.3	36.6	33.6	57.8	58.1
1950	17.9	52.2	26.1	47.1	38.0	34.3	68.7	49.9
1951	21.3	59.1	28.8	53.2	40.1	36.1	74.0	48.8
1952	26.1	63.7	31.4	57.4	45.5	41.0	83.1	49.3
1953	27.1	71.3	32.2	63.7	42.6	38.0	84.3	45.1
1954	24.3	61.9	30.8	55.9	43.5	39.2	78.9	49.8
1955	26.1	65.4	31.7	58.8	44.4	39.9	82.5	48.4
1956	28.4	69.9	34.3	62.9	45.2	40.7	82.8	49.1
1957	29.5	70.0	33.2	62.8	47.0	42.2	88.9	47.4
1958	27.8	64.5	33.1	58.4	47.6	43.1	83.9	51.3
1959	33.3	73.1	35.3	65.7	50.7	45.6	94.4	48.3
1960	35.0	75.5	37.7	68.1	51.4	46.3	92.8	49.9
1961	36.9	76.2	40.0	69.1	53.4	48.5	92.3	52.5
1962	41.6	81.3	43.9	74.0	56.2	51.1	94.6	54.0
1963	45.6	80.0	45.7	73.4	62.1	57.0	99.7	57.2
1964	48.2	80.0	48.4	73.9	65.2	60.3	99.6	60.5
1965	57.4	87.0	53.5	80.6	71.2	66.0	107.2	61.5
1966	66.2	100.2	61.9	92.9	71.3	66.1	106.9	61.8
1967	68.8	101.2	67.2	94.7	72.6	68.0	102.4	66.4
1968	72.6	102.5	71.2	96.6	75.2	70.8	101.9	69.5
1969	78.6	104.6	76.3	99.3	79.2	75.2	103.1	72.9
1970	73.2	98.3	79.0	94.7	77.3	74.5	92.7	80.3
1971	74.0	92.1	79.2	89.7	82.5	80.3	93.4	86.0
1972	83.1	96.8	81.4	93.9	88.5	85.9	102.0	84.2
1973	90.7	105.0	89.8	102.1	88.8	86.4	101.0	85.5
1974	84.0	103.3	94.5	101.6	82.7	81.3	88.9	91.5
1975	77.8	88.9	91.9	89.5	87.0	87.5	84.7	103.3
1976	86.7	93.5	95.2	93.8	92.4	92.8	91.1	101.8
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	113.6	106.4	106.3	106.4	106.8	106.7	106.9	99.9
1979	121.4	112.2	114.2	112.6	107.8	108.2	106.3	101.7

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

18. Transportation Equipment

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	23.3	62.7	33.6	55.3	42.1	37.1	69.2	53.7
1949	23.6	60.2	31.7	53.0	44.5	39.2	74.3	52.7
1950	31.2	65.5	33.3	57.3	54.5	47.6	93.8	50.8
1951	34.2	78.8	40.4	68.9	49.6	43.4	84.6	51.3
1952	39.0	91.6	42.6	78.9	49.4	42.6	91.5	46.5
1953	47.6	106.1	45.5	90.4	52.7	44.9	104.6	42.9
1954	43.7	92.3	47.2	80.8	54.1	47.3	92.5	51.1
1955	51.7	99.8	49.8	87.0	59.4	51.8	103.8	49.9
1956	44.3	97.6	53.7	86.4	51.2	45.3	82.4	55.0
1957	47.3	99.4	55.5	88.3	53.6	47.6	85.3	55.8
1958	39.1	82.9	53.5	75.6	51.7	47.1	73.1	64.5
1959	43.7	87.9	54.2	79.5	55.0	49.8	80.7	61.7
1960	44.4	85.8	53.5	77.7	57.1	51.7	82.9	62.4
1961	42.2	80.5	54.0	73.9	57.2	52.5	78.2	67.1
1962	49.8	88.9	55.8	80.6	61.8	56.0	89.3	62.7
1963	56.7	92.5	58.4	83.9	67.6	61.4	97.1	63.2
1964	59.7	92.1	61.1	84.3	70.8	64.8	97.7	66.4
1965	67.8	100.4	65.0	91.5	74.2	67.6	104.4	64.8
1966	73.5	109.2	72.2	99.9	73.5	67.3	101.7	66.1
1967	73.5	108.1	79.8	101.0	72.8	68.0	92.0	73.9
1968	82.3	114.3	84.0	106.7	77.1	71.9	97.9	73.5
1969	79.3	111.7	88.0	105.7	75.0	71.0	90.2	78.8
1970	63.1	94.0	85.5	91.8	68.7	67.2	73.8	91.0
1971	70.6	90.2	84.1	88.8	79.6	78.2	84.0	93.1
1972	76.7	94.0	87.6	92.4	83.0	81.5	87.5	93.2
1973	88.4	102.1	91.5	99.4	88.9	86.6	96.5	89.7
1974	80.3	95.3	94.1	95.0	84.6	84.3	85.4	98.7
1975	76.7	87.3	93.7	88.9	86.3	87.9	81.8	107.4
1976	90.2	94.1	96.0	94.6	95.3	95.8	93.9	102.1
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	104.1	105.7	106.5	105.8	98.4	98.6	97.8	100.8
1979	98.7	106.3	114.9	108.4	91.0	92.8	85.9	108.1

PRELIMINARY: April 13, 1981

TABLE VI. MANUFACTURING INDUSTRIES

19. Instruments

Indexes of Real Output, Inputs, and Productivity Ratios
(1977=100)

Year	Output and Inputs				Productivity Ratios			
	Real Output	Labor Input	Capital Input	Multi-Factor Input	Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1948	18.3	48.2	19.7	41.2	44.3	37.9	92.6	40.9
1949	17.8	43.5	25.6	38.6	46.0	40.9	69.4	58.9
1950	20.9	47.3	27.6	41.9	49.9	44.2	75.8	58.3
1951	25.6	57.6	31.6	50.7	50.4	44.4	81.0	54.8
1952	29.4	63.3	32.7	55.4	53.2	46.5	90.0	51.7
1953	32.0	68.9	33.8	59.9	53.5	46.5	94.9	49.0
1954	31.5	61.8	33.9	54.4	57.9	51.0	92.9	54.9
1955	33.5	62.7	36.2	55.6	60.2	53.3	92.4	57.7
1956	35.4	65.7	39.8	58.5	60.6	54.0	89.1	60.5
1957	34.4	65.8	41.1	58.8	58.4	52.2	83.6	62.5
1958	34.1	61.2	41.7	55.4	61.5	55.6	81.8	68.0
1959	38.3	66.8	43.6	60.1	63.7	57.3	87.8	65.3
1960	39.6	68.2	45.7	61.6	64.3	58.1	86.7	67.0
1961	38.6	67.3	47.3	61.4	62.7	57.3	81.6	70.2
1962	43.1	69.4	49.0	63.4	67.9	62.0	87.9	70.6
1963	45.1	59.4	51.2	64.0	70.5	65.0	88.1	73.8
1964	46.3	69.9	53.3	64.9	71.4	66.2	86.8	76.3
1965	53.4	74.2	56.1	68.7	77.7	72.0	95.2	75.6
1966	61.3	83.2	61.0	76.6	80.1	73.7	100.6	73.3
1967	63.2	85.9	65.5	79.7	79.3	73.6	96.5	76.3
1968	67.0	86.4	68.3	80.8	82.9	77.6	98.0	79.1
1969	74.4	89.5	72.4	84.1	88.5	83.2	102.9	80.9
1970	65.5	85.1	75.8	82.2	79.6	76.9	86.3	89.1
1971	66.0	79.5	77.5	78.9	83.7	83.1	85.2	97.5
1972	73.7	84.1	80.5	82.9	88.8	87.6	91.6	95.7
1973	84.2	91.4	85.8	89.6	94.0	92.2	98.2	93.9
1974	89.0	96.0	92.1	94.7	94.0	92.8	96.6	96.0
1975	84.9	87.3	92.6	89.0	95.5	97.3	91.8	106.0
1976	91.4	92.8	96.3	93.9	97.3	98.5	94.9	103.8
1977	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1978	107.9	106.9	105.1	106.6	101.3	101.0	102.7	98.4
1979	112.0	113.2	109.3	112.2	99.8	99.0	102.5	96.5

PRELIMINARY: April 13, 1981

Table VII
Quarterly Indexes of Productivity
1979 III, IV and 1980
Multiple Input, Labor, Capital and Capital/Labor Ratio
(1977=100)

1. Private Business Economy

		Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1979	III	99.8	99.3	101.2	98.1
	IV	99.5	99.0	100.8	98.2
1980	I	99.1	99.3	98.7	100.6
	II	96.9	98.9	93.3	106.0
	III	96.4	99.2	91.2	108.8
	IV	95.6	98.8	89.6	110.2
Percent Change: (Annual Rate)					
1980	III	-2.0	1.5	-8.6	11.1
	IV	-3.6	-1.9	-6.8	5.3

2. Nonfinancial Corporate Business

		Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1979	III	100.9	100.3	103.2	97.2
	IV	100.5	99.7	103.2	96.5
1980	I	100.8	100.0	103.5	96.6
	II	99.8	99.8	99.9	99.9
	III	101.3	101.5	100.9	100.6
	IV	n.a.	n.a.	n.a.	n.a.
Percent Change: (Annual Rate)					
1980	III	6.1	6.9	4.0	2.8
	IV	n.a.	n.a.	n.a.	n.a.

3. Farming

		Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1979	III	106.8	110.3	103.6	106.5
	IV	105.4	105.8	105.1	100.7
1980	I	111.6	115.2	108.4	106.3
	II	116.6	123.9	110.3	112.3
	III	100.2	105.2	95.9	109.7
	IV	97.5	99.8	95.5	104.5
Percent Change: (Annual Rate)					
1980	III	-45.3	-48.0	-42.9	-9.0
	IV	-10.3	-19.1	-1.6	-17.8

Table VII (Cont'd)
Quarterly Indexes of Productivity
1979 III, IV and 1980
Multiple Input, Labor, Capital and Capital/Labor Ratio
(1977=100)

4. Manufacturing Industry

		Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1979	III	101.0	101.3	100.2	101.1
	IV	100.8	101.4	99.2	102.3
1980	I	100.5	101.4	98.1	103.4
	II	98.0	100.4	91.8	109.4
	III	97.2	100.2	89.6	111.8
	IV	100.4	102.7	94.1	109.2
Percent Change: (Annual Rate)					
1980	III	-3.1	-0.7	-9.2	9.3
	IV	13.5	10.6	21.5	-8.9

5. Nonfarm Nonmanufacturing Industry

		Multi-Input Productivity	Output per Unit Labor	Output per Unit Capital	Capital-Labor Ratio
1979	III	98.7	97.7	101.0	96.8
	IV	98.5	97.6	100.8	96.8
1980	I	97.6	97.6	98.1	99.5
	II	95.4	97.0	92.9	104.4
	III	95.7	98.4	91.5	107.5
	IV	93.3	96.9	87.6	110.6
Percent Change: (Annual Rate)					
1980	III	1.4	5.8	-5.9	12.5
	IV	-9.7	-5.8	-15.9	12.0

Note: Percent changes are average annual rates of change from the previous quarter. Fourth quarter 1980 is preliminary. All series are revised to reflect the 1977 census benchmark revisions and definitional changes. (April 22, 1981).